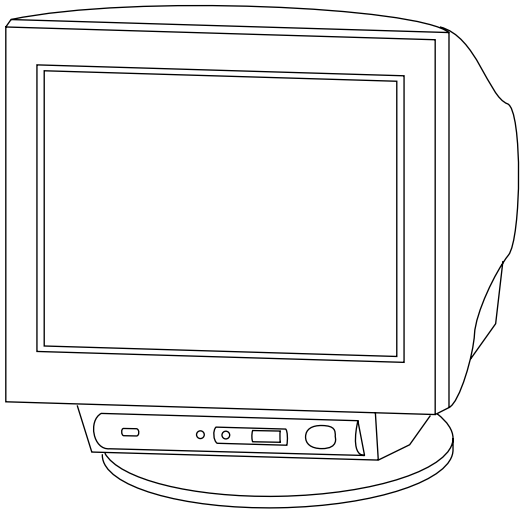
GDM-F520

SERVICE MANUAL



AEP Model
US Model
Canadian Model

Chassis No. SCC-L33D-A

CR1 CHASSIS

SPECIFICATIONS

CRT
0.22 mm aperture grille pitch, 90-degree deflection, FD Trinitron
21 inches measured diagonally
Viewable image size
Approx. 403.8 × 302.2 mm (w/h) (16 × 12 inches)
19.8" viewing image
Resolution (H:Horizontal, V:Vertical)
Maximum: H: 2048 dots, V: 1536 lines
Recommended: H: 1600 dots, V: 1200 lines
Input signal levels
Video signal: Analog RGB: 0.700 Vp-p (positive), 75 Ω
SYNC signal: H/V separate or composite sync:
TTL 2 kΩ, Polarity free
Sync on Green: 0.3 Vp-p (negative)
Standard image area
Approx. 388 × 291 mm (4:3)
(15 3/8 × 11 1/2 inches) or
Approx. 364 × 291 mm (5:4)
(14 3/8 × 11 1/2 inches)
Deflection frequency (H:Horizontal, V:Vertical)
H: 30 to 137 kHz, V: 48 to 170 Hz

AC input voltage/current
100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A
Power Consumption (with no USB devices connected)
Approx. 145 W
Operating temperature
10 ºC to 40 ºC
Dimensions Approx. 497 × 499 × 487 mm (w/h/d)
(19 5/8 × 19 3/4 × 19 1/4 inches)
Mass Approx. 30 kg (66 lb 2 oz)
Plug and Play DDC2B/DDC2Bi
Supplied accessories
Power cord
HD15 video signal cable
USB cable
Exclusive Power Mac G3/G4 adapter
This instruction manual

Design and specifications are subject to change without notice.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described right.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

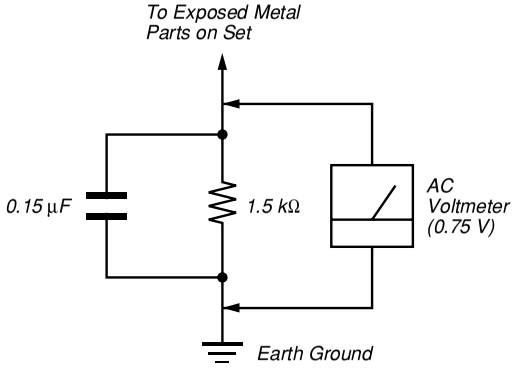

Fig. A. Using an AC voltmeter to check AC leakage.

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WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

Note: Hand degauss must be used on stand-by or power-off condition.
This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

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POWER SAVING FUNCTION

This monitor meets the power-saving guidelines set by VESA, TCO'99, and ENERGY STAR. If no signal is input to the monitor from your computer, the monitor will automatically reduce power consumption as shown below.

Power mode	Power consumption*1	⏻ (power) indicator
normal operation	≤ 145 W	green
active off*2 (deep sleep)*3	≤ 3 W	orange

*1 Figures reflect power consumption when no USB compatible peripherals are connected to the monitor.

*2 When your computer enters power saving mode, NO SIGNAL appears on the screen. After a few seconds, the monitor enters power saving mode.

*3 "Deep sleep" is power saving mode defined by the Environmental Protection Agency.

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DIAGNOSIS

Failre	Power LED
+B failure	Amber (0.5 sec) → Off (0.5 sec)
Horizontal / Vertical Deflection failure, Thermal protector	Amber (1.5 sec) → Off (0.5 sec)
ABL protector	Amber (0.5 sec) → Off (1.5 sec)
HV failure	Amber (0.25 sec) → Off (0.25 sec) → Amber (0.25 sec) → Off (1.25 sec)
Aging / Self Test	Amber (0.5 sec) → Off (0.5 sec) → Green (0.5 sec) → Off (0.5 sec)
Out of scan range	Green (OSD indication)

Aging Mode (Video Aging) : During Power Save, press MENU button for longer than 2 second.
Self Test (OSD Color Bar) : During Power Save, push up Control button for longer than 2 second.
Reliability Check Mode : During Power Save, push down Control button for longer than 2 second.

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TIMING SPECIFICATION

MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4
RESOLUTION	640 X 480	1600 X 1200	1920 X 1440	1920 X 1440
CLOCK	25.175 MHz	229.500 MHz	341.000 MHz	297.000 MHz
— HORIZONTAL —				
H-FREQ	31.469 kHz	106.250 kHz	128.485 kHz	112.500 kHz
	usec	usec	usec	usec
H. TOTAL	31.778	9.412	7.783	8.889
H. BLK	6.356	2.440	2.152	2.424
H. FP	0.636	0.279	0.457	0.485
H. SYNC	3.813	0.837	0.622	0.754
H. BP	1.907	1.325	1.073	1.185
H. ACTIV	25.422	6.972	5.630	6.465
— VERTICAL —				
V. FREQ (HZ)	59.940 Hz	85.000 Hz	84.977 Hz	75.000 Hz
	lines	lines	lines	lines
V. TOTAL	525	1250	1512	1500
V. BLK	45	50	72	60
V. FP	10	1	1	1
V. SYNC	2	3	3	3
V. BP	33	46	68	56
V. ACTIV	480	1200	1440	1440
— SYNC —				
INT(G)	NO	NO	NO	NO
EXT (H/V) /POLARITY	YES N/N	YES P/P	YES P/P	YES N/P
EXT (CS) /POLARITY	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT

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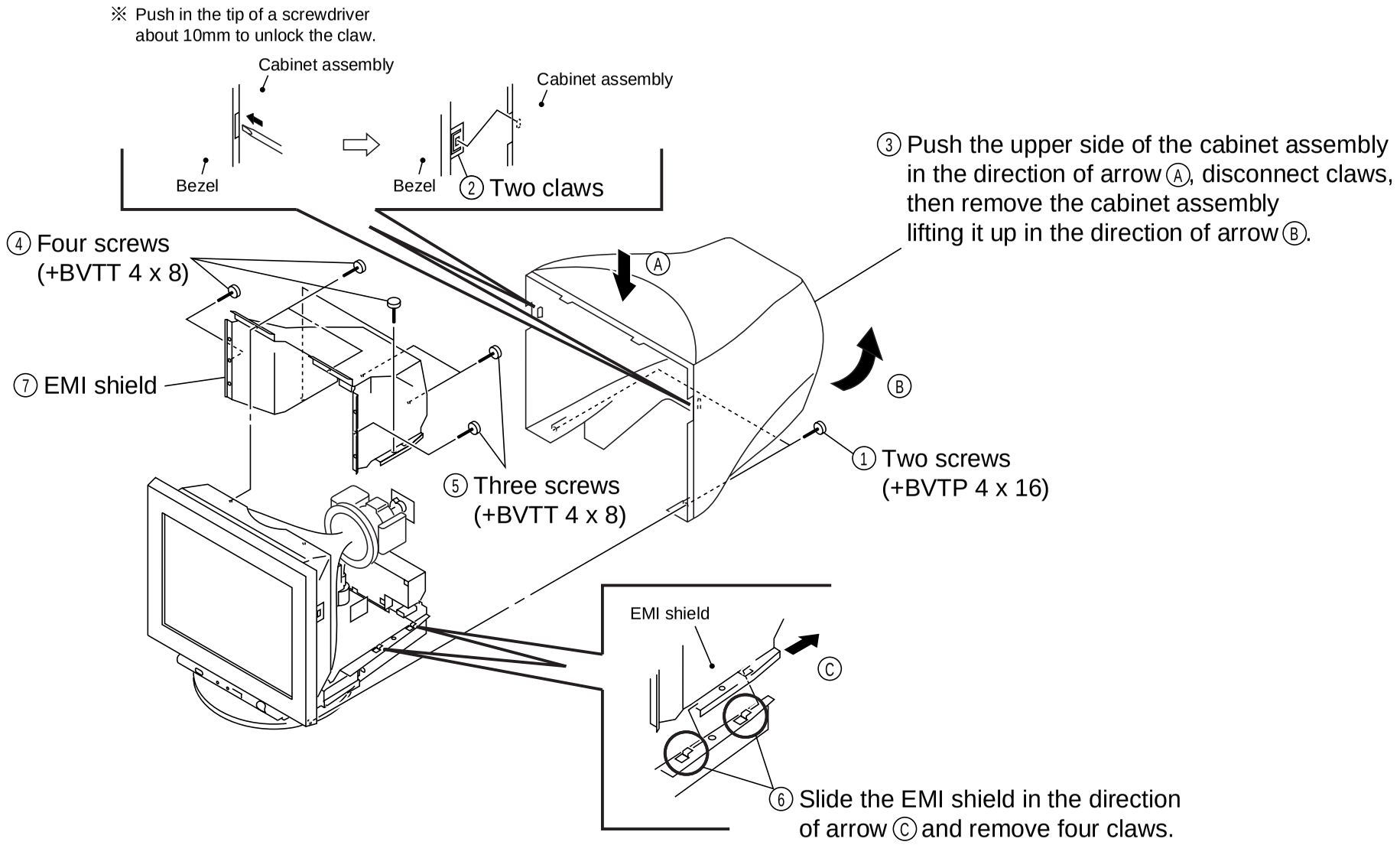
SECTION 1
DISASSEMBLY

1-1. CABINET ASSEMBLY REMOVAL


※ Push in the tip of a screwdriver about 10mm to unlock the claw.
Cabinet assembly
Bezel
Cabinet assembly
Bezel
② Two claws
③ Push the upper side of the cabinet assembly in the direction of arrow Ⓐ, disconnect claws, then remove the cabinet assembly lifting it up in the direction of arrow Ⓑ.
④ Four screws (+BVTT 4 x 8)
⑦ EMI shield
⑤ Three screws (+BVTT 4 x 8)
① Two screws (+BVTP 4 x 16)
EMI shield
⑥ Slide the EMI shield in the direction of arrow Ⓒ and remove four claws.

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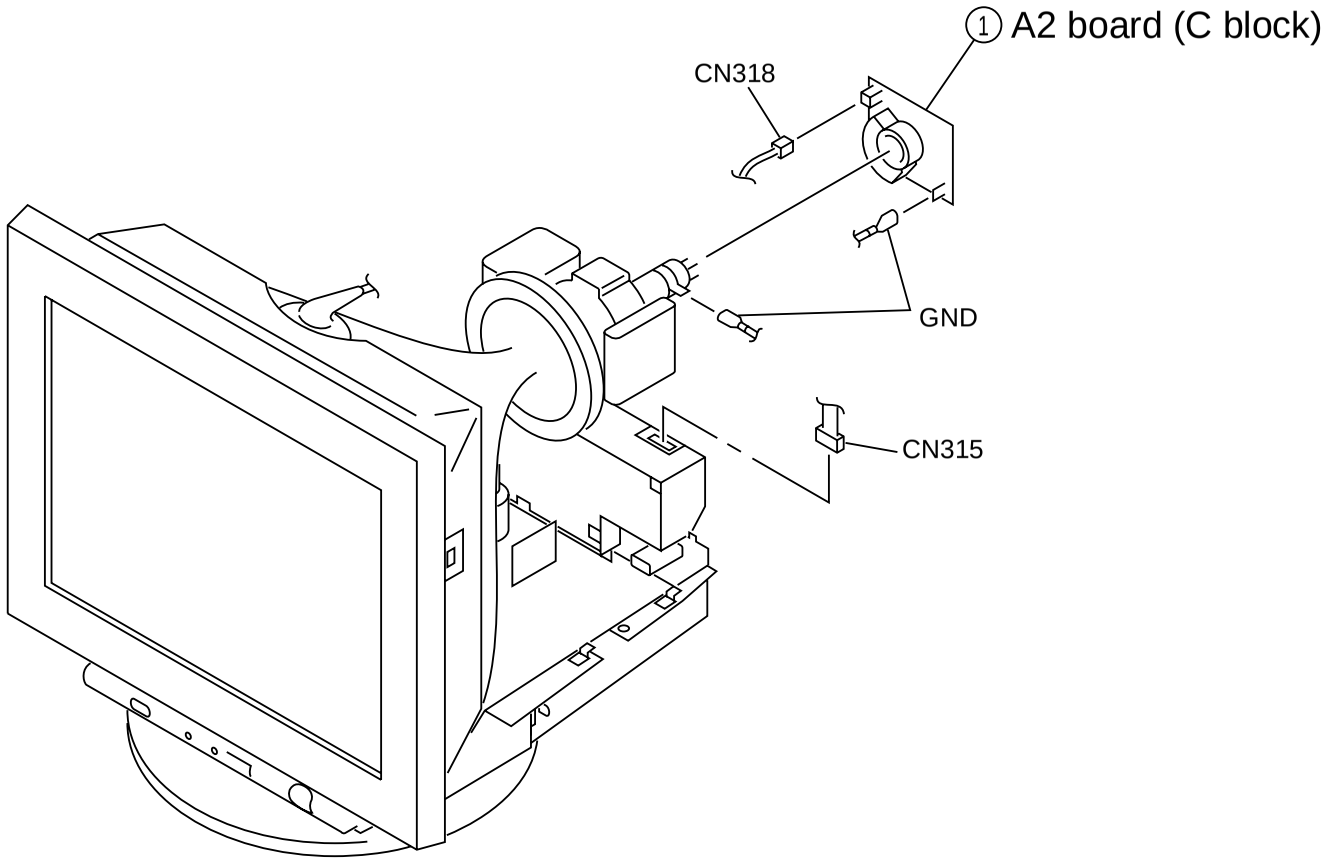
1-2. A2 BOARD (C BLOCK) REMOVAL



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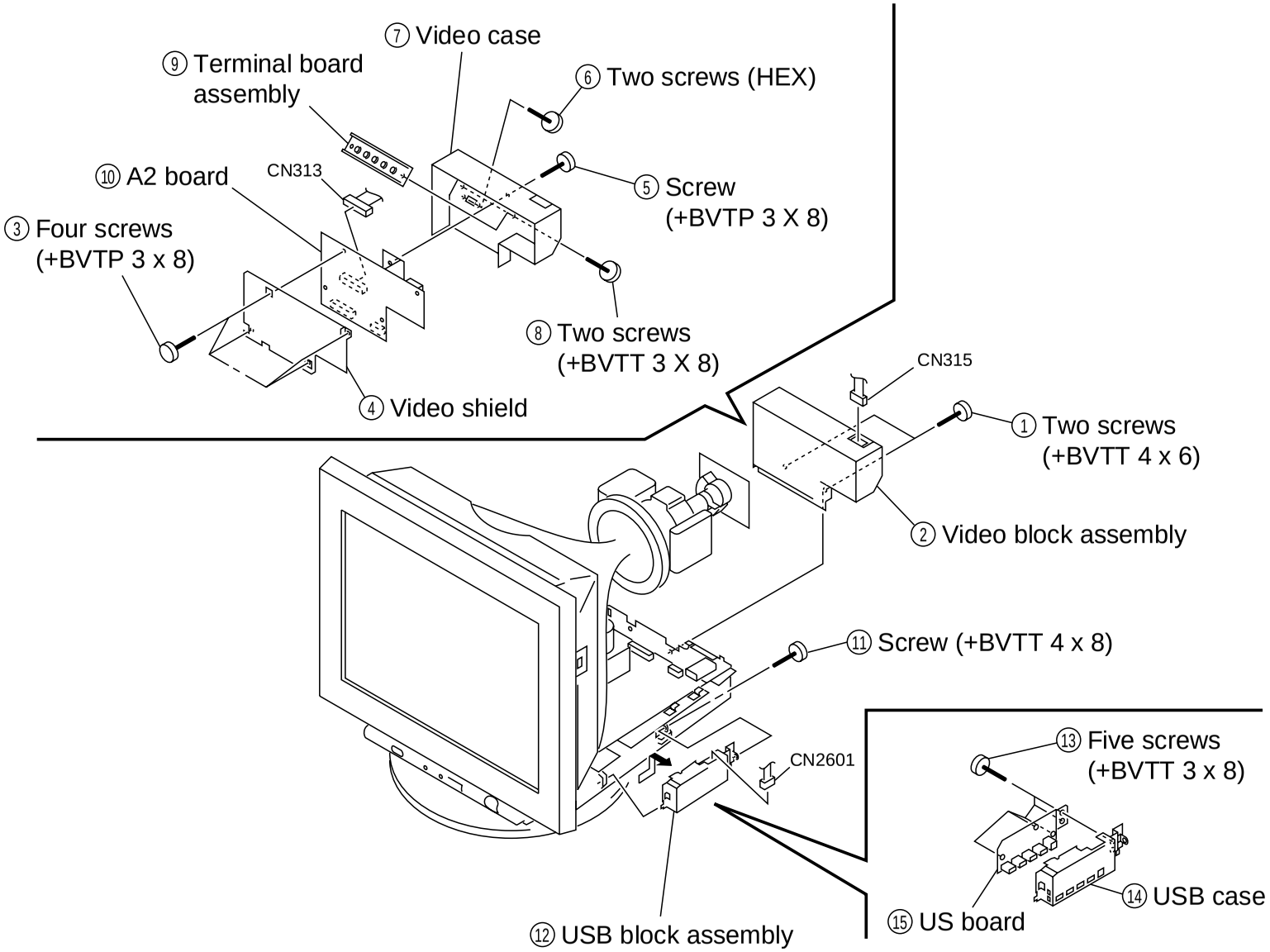
1-3. A2 BOARD, US BOARD REMOVAL


⑦ Video case
⑨ Terminal board assembly
⑥ Two screws (HEX)
⑩ A2 board
CN313
⑤ Screw (+BVTP 3 X 8)
③ Four screws (+BVTP 3 x 8)
⑧ Two screws (+BVTT 3 X 8)
④ Video shield
CN315
① Two screws (+BVTT 4 x 6)
② Video block assembly
⑪ Screw (+BVTT 4 x 8)
CN2601
⑬ Five screws (+BVTT 3 x 8)
⑭ USB case
⑮ US board
⑫ USB block assembly

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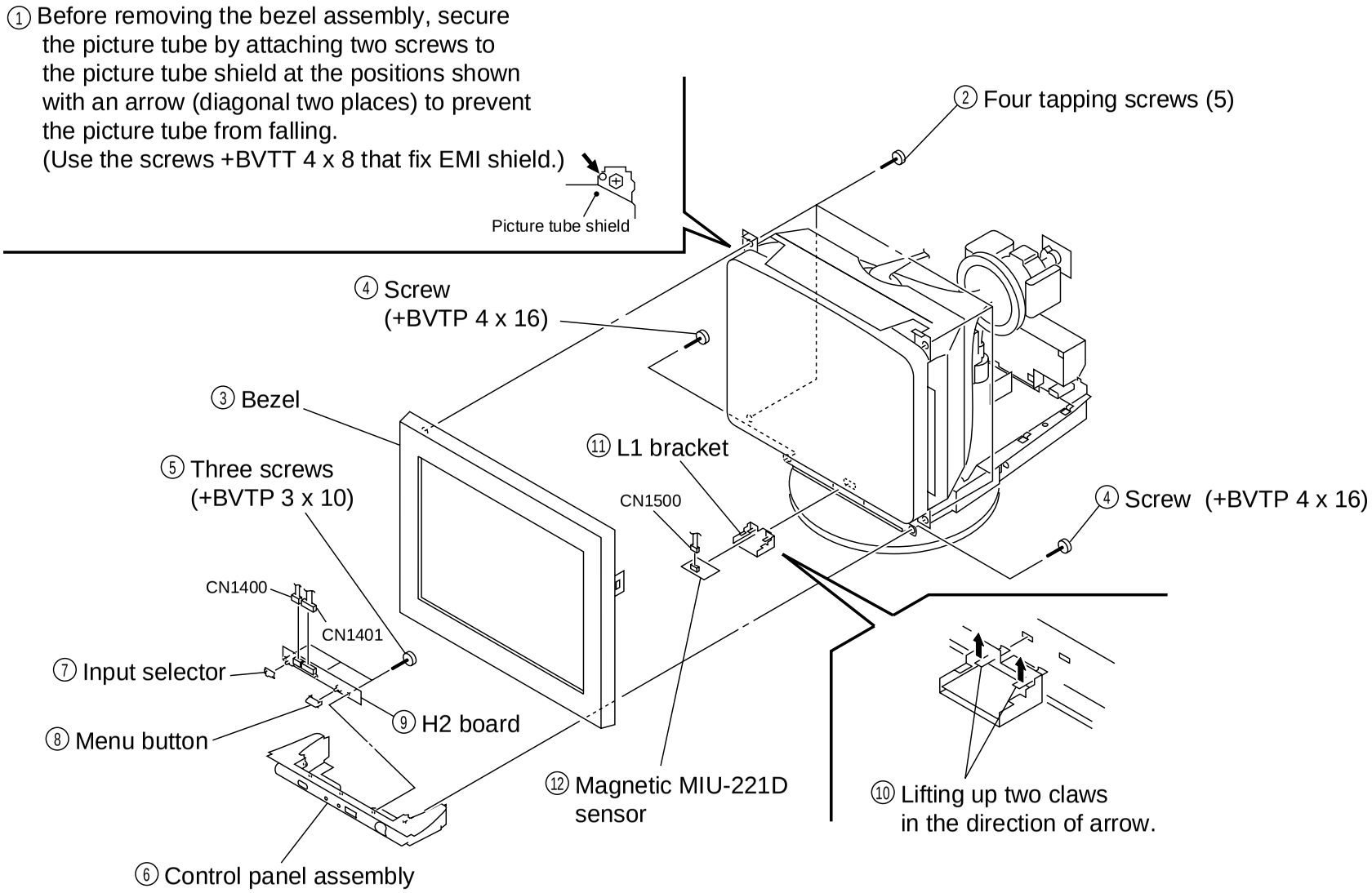
1-4. BEZEL, H2 BOARD, MAGNETIC SENSOR REMOVAL


① Before removing the bezel assembly, secure the picture tube by attaching two screws to the picture tube shield at the positions shown with an arrow (diagonal two places) to prevent the picture tube from falling.
(Use the screws +BVTT 4 x 8 that fix EMI shield.)
Picture tube shield
② Four tapping screws (5)
④ Screw (+BVTP 4 x 16)
③ Bezel
⑤ Three screws (+BVTP 3 x 10)
⑪ L1 bracket
CN1500
④ Screw (+BVTP 4 x 16)
CN1400
CN1401
⑦ Input selector
⑨ H2 board
⑧ Menu button
⑫ Magnetic MIU-221D sensor
⑩ Lifting up two claws in the direction of arrow.
⑥ Control panel assembly

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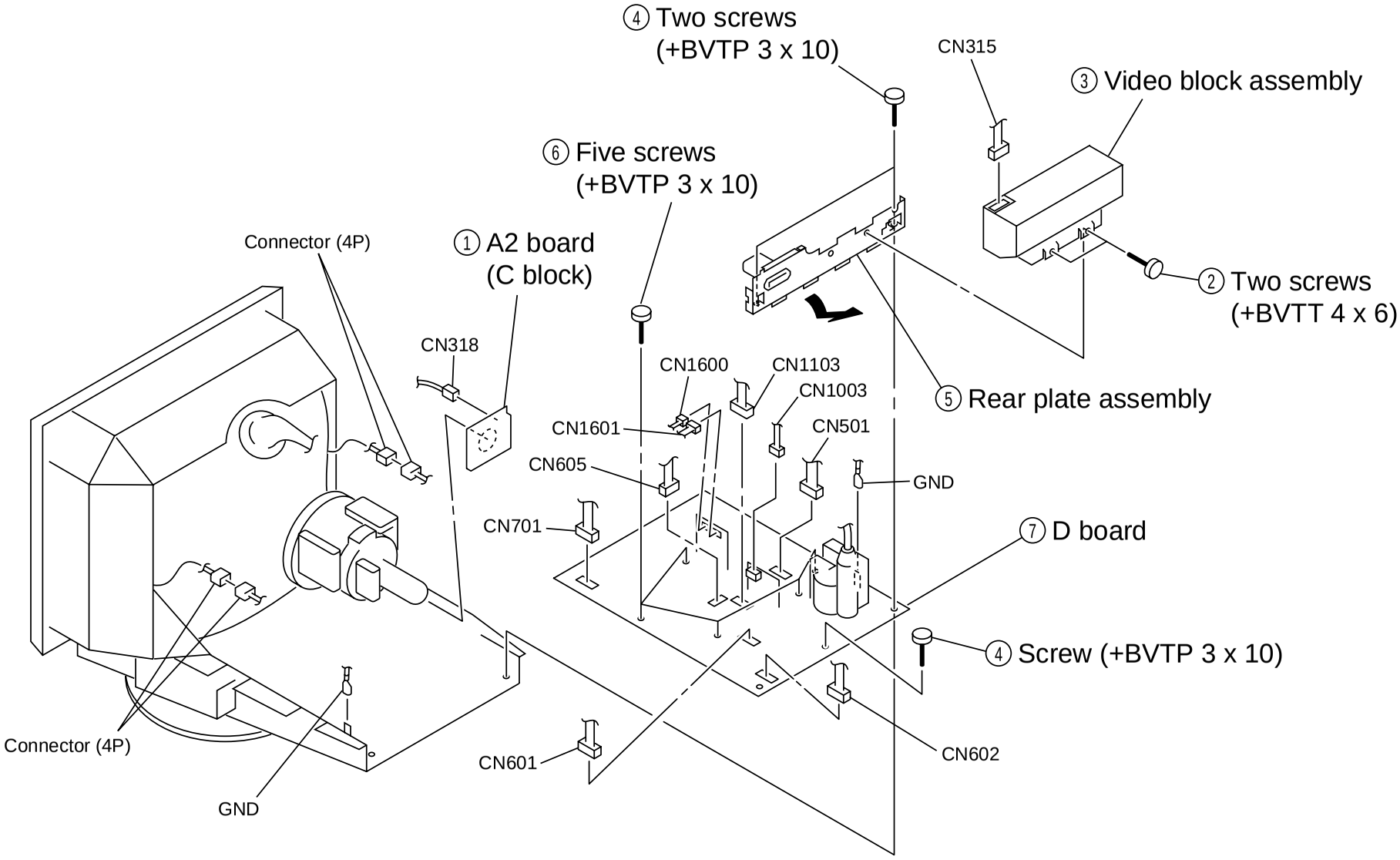
1-5. D BOARD REMOVAL



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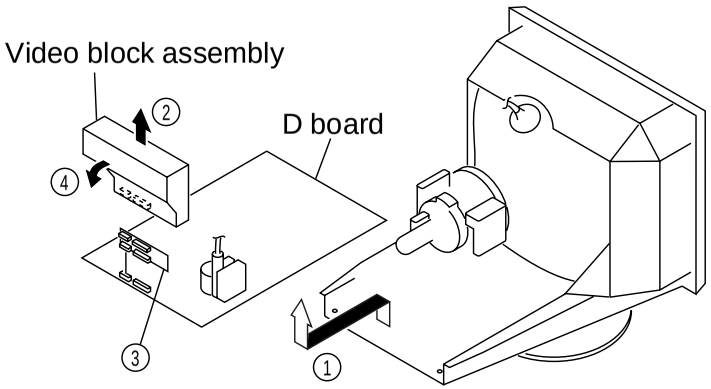
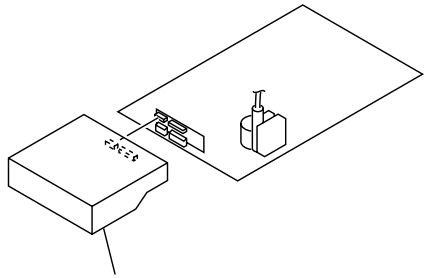
1-6. SERVICE POSITION

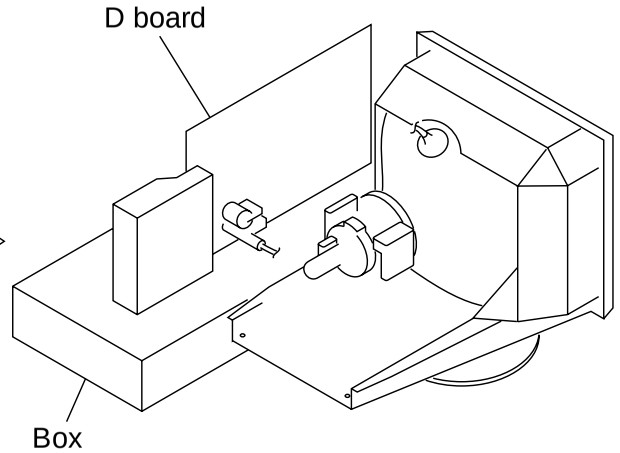
① Remove the D board.
② Remove the Video block assembly.
③ Install the Adaptor board
(XT MOUNT) (A-1391-123-A).
④ Lay the Video block assembly.



⑤ Install the video block assembly.



⑥ Put a box which is about 15cm in height under the D board to fix it.



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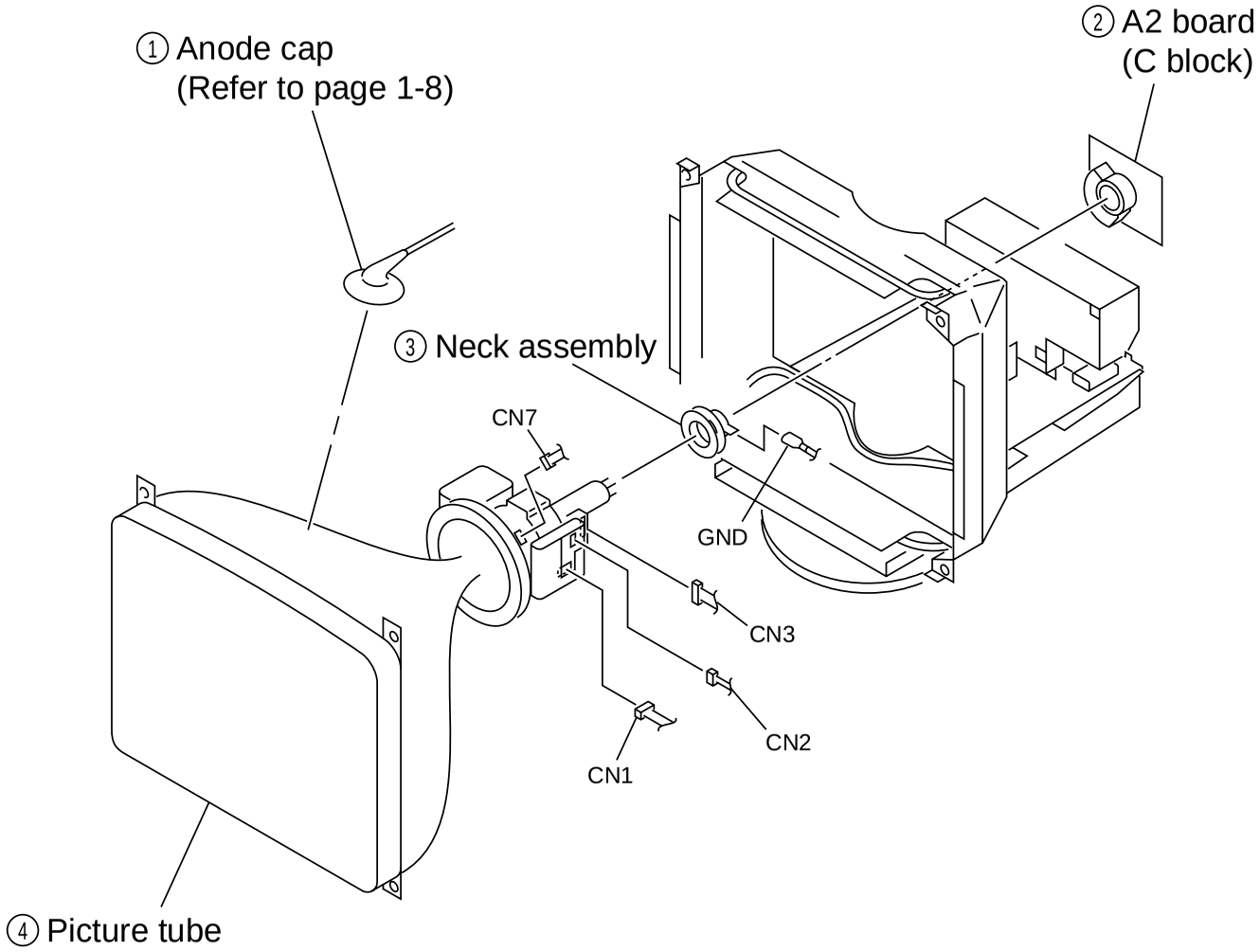
1-7. PICTURE TUBE REMOVAL



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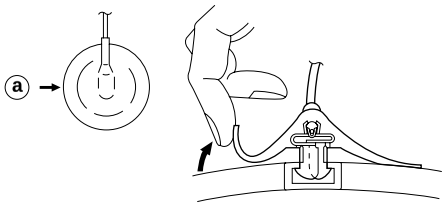
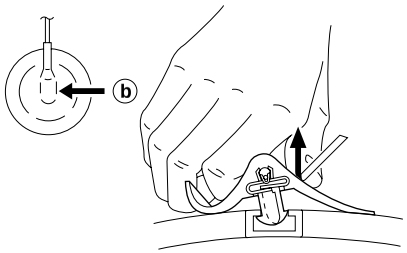
•REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

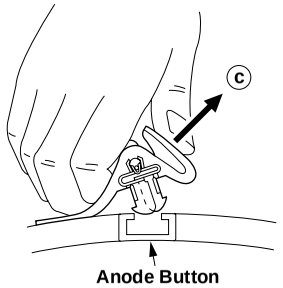
•REMOVING PROCEDURES



①Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



②Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



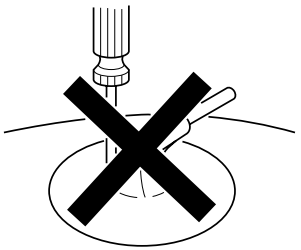
③When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

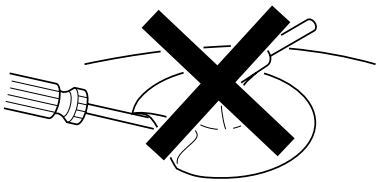
•HOW TO HANDLE AN ANODE-CAP

①Don't scratch the surface of anode-caps with sharp shaped material!

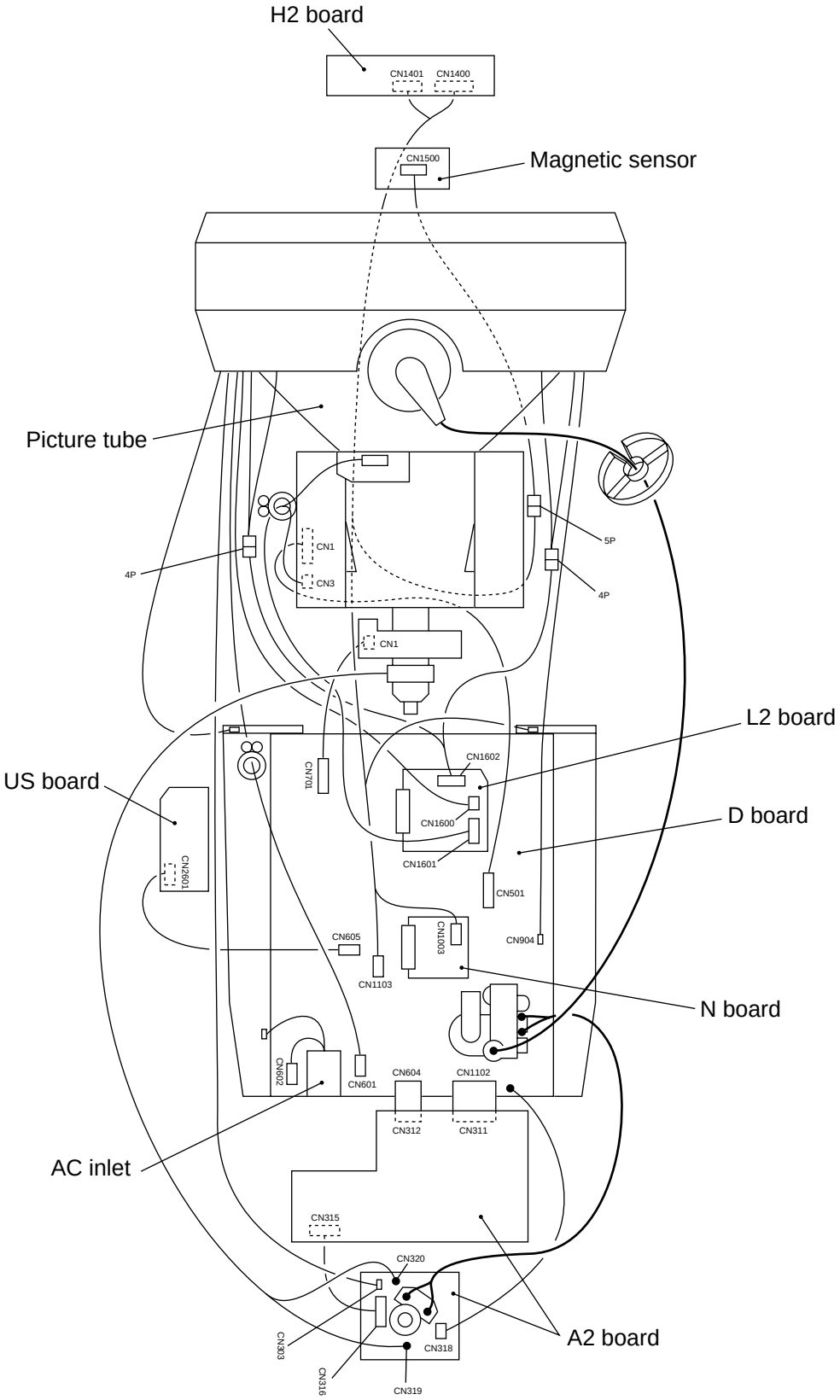
②Don't press the rubber hardly not to damage inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or damage the rubber.





1-8. HARNESS LOCATION



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SECTION 2
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (⧓)
HV ADJ	RV901

		Part Replaced (◪)
HV Regulator Circuit Check	D Board	C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT) • Mounted D Board
HV Protector Circuit Check	D Board	C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board
	N Board	IC1001, RB1001 • Mounted N Board
Beam Current Protector Circuit Check	D Board	C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board
	N Board	IC1001, RB1001 • Mounted N Board

* Confirm one minute after turning on the power.

a) HV Regulator Circuit Check

1) Turn the RV901 slowly, and adjustment so that high voltage is in the specified range.
   [Specification]: 27.00 ± 0.05 kV
2) Check that the voltage of D912 cathode on the D board is 17.0 V or more.

b) HV Protector Circuit Check

1) Using external DC Power Supply, apply the voltage shown below between cathode of D912 and GND, and check that the RASTER disappers.
   [Specification]: 19.95 + 0.00/– 0.05 V

c) Beam Current Protector Circuit Check

1) Connect constant current source to a section between T901 (FBT) ⑪ pin and GND, and check that the RASTER disappers when the specified current flows to the ⑪ pin.
   [Specification]: 2.12 + 0.00/– 0.01 mA

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SECTION 3
ADJUSTMENTS

Note: Hand degauss must be used on stand-by or power-off condition.
This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

• Landing Rough Adjustment

1. Display all white pattern (or black dot pattern).
2. Set contrast to 255.
3. Display green plain pattern.
4. Side back DY and roughly adjust green plain pattern to be centered on the useful screen with Purity Magnet.
5. Adjust DY tilt.

Note: Set ROTATION to 128 and LCC_NS to 128 when adjusting DY tilt.

6. LIghtly tighten the DY screw.

• Landing Fine Adjustment

Note: (1) After adjust W/B (9300k), measure the average of IK with all white video input, while CONTRAST is maximum and BRIGHTNESS is center. And adjustment shall be made so that the miss-landing become least after aging 2H with the IK 30% of measured value shown above.

(2) The magnetic field shall be BH = 0.

(3) When adjusting at other than BH = 0, calculate the shifted value from BH = 0.

1. Put the monitor in helmholz coil.
2. Set as follows;
   LCC_SW = 0 (LCC Correction Current = 0)
   FUNCTION_SW bit1 = (Auto Degauss = On)
   CONTRAST = 255
3. Display green plain pattern.
4. Degauss the iron part of chassis with a hand degausser and degauss coil.
5. Degauss CRT face with a hand degausser again.
6. Input AC 230V to AC IN and turn the monitor off and on. Then auto-degauss works.
7. Reset FUNCTION_SW bit1 to 0 (auto-degauss = off)
8. Degauss CRT face with a hand degausser again.
9. Attach wobbling coil to the specified place on CRT neck.
10. Put on landing sensor to CRT face.
11. Set LCC_SW to 12.
12. With landing checker, adjust DY position, purity, DY center and landing of the 4 corners.
13. Read VX and VY value which are the read out of magnetic sensor, and write to "LCC_VX_REF" and "LCC_VY_REF".

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14. Adjust landing by LCC_NS, LCC_LT, LCC_LB, LCC_RT, and LCC_RB. Adjustment of registers shall be limited within the following range.
    LCC_NS: 128 ± 15
    LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40

<Specifications>
Adjust so that the green is within the specification given right.
4 corner adjust target : within ± 1

(µm)

0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3

The red and blue must be within the specification given right with respect to the green.

(µm)

± 6	± 6	± 6
± 6	± 6	± 6
± 6	± 6	± 6

A difference between red and blue must be within the specification given right.

(µm)

10	10	10
10	7	10
10	10	10

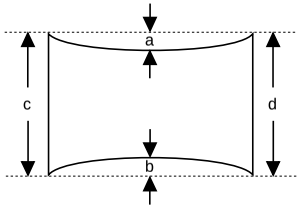
Set LCC_SW to 13, and Perform Service Save.

15. Tighten DY screw within specified torque, and auto-degauss.

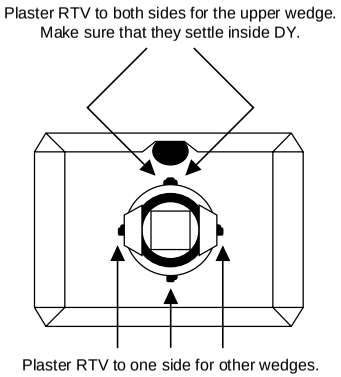
Note: Torque 22 ± 2 kgcm (2.2 ± 0.2Nm)

16. Adjust the vertical angle of DY to make top and bottom pins equal (a = b). The horizontal angle shall not be changed (straight). Settle DY upright without leaning, and insert wedges firmly so that DY shall not move.

<How to place wedge>
Green plain crosshatch pattern



a and b should be equal.
c and d should be equal.


Plaster RTV to both sides for the upper wedge.
Make sure that they settle inside DY.
Plaster RTV to one side for other wedges.

17. Adjust top and bottom pins correction VR.
18. Adjust the horizontal trapezoid distortion by DY horizontal trapezoid correction VR.

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19. Check landing at each corner and in case not in specification, adjust landing of 4 corners with "LCC_NS", "LCC_LT", "LCC_LB", "LCC_RT", and "LCC_RB". The limitations of registers are shown below.
    LCC_NS: 128 ± 15
    LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40
20. Remove the sensor and wobbling coil.
21. Switch signals to R, G, and B, and then check that the pure colors have good color purity.
22. Fix purity magnets with white paint.

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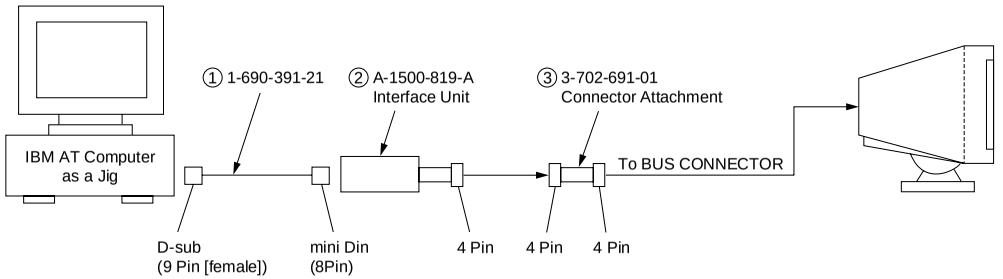
Connect the communication cable of the computer to the connector located on the D board. Run the service software and then follow the instruction.



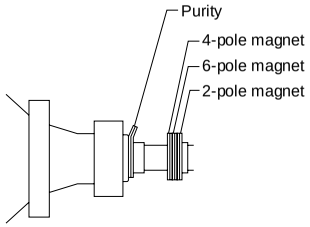
*The parts above (① ~ ③) are necessary for DAS adjustment.

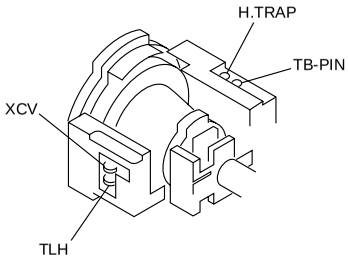
• Convergence Rough Adjustment

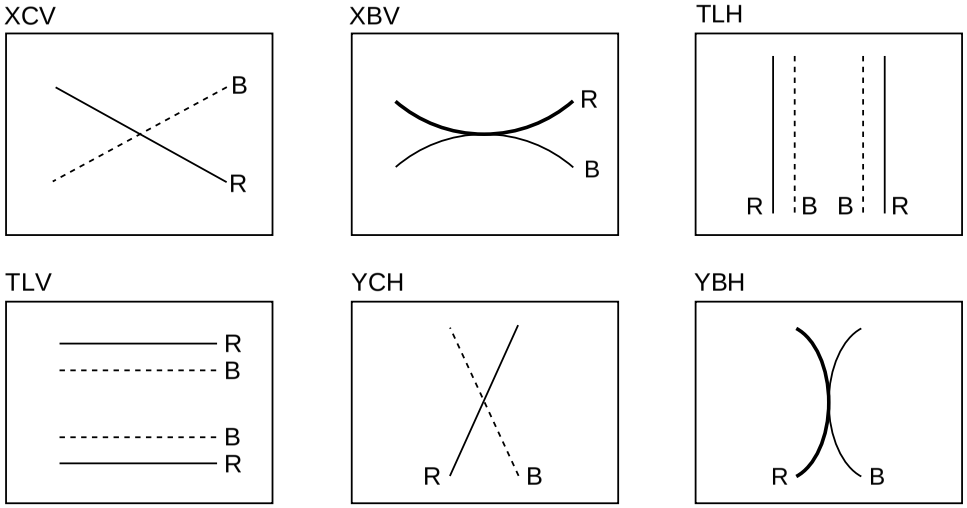
(1) Display white crosshatch pattern.

(2) Pile the convex parts of 6-pole magnet for convergence together.

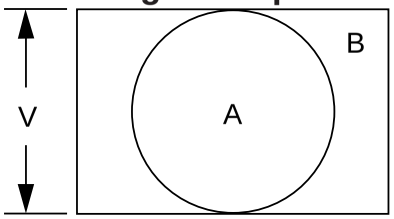
(3) Roughly adjust H.CONV and V.CONV with 4-pole magnet.







• Convergence Specification



A	0.20 mm
B	0.24 mm

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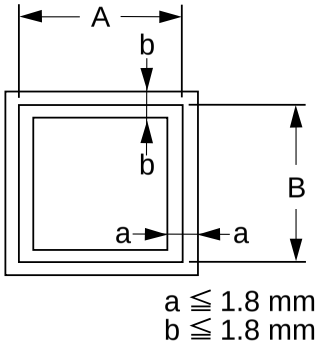
• White Balance Adjustment Specification

1. 9300 K
   x = 0.283 ± 0.005
   y = 0.298 ± 0.005
   (All White)
2. 6500 K
   x = 0.313 ± 0.005
   y = 0.329 ± 0.005
   (All White)
3. 5000 K
   x = 0.346 ± 0.005
   y = 0.359 ± 0.005
   (All White)

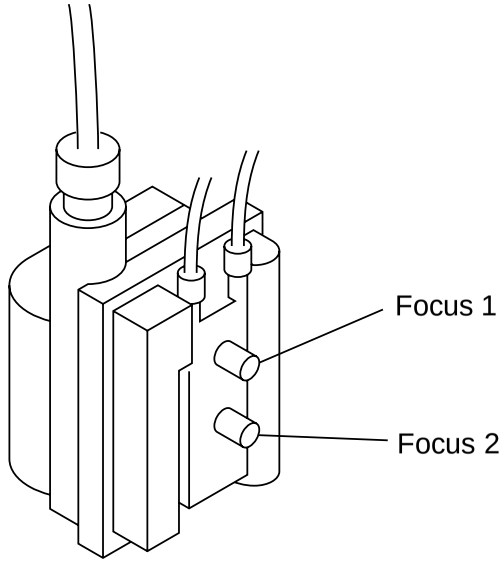
• Vertical and Horizontal Position and Size Specification



MODE	4 : 3
A	388
B	291

• Focus adjustment

Adjust the focus volume 1 and 2 for the optimum focus.



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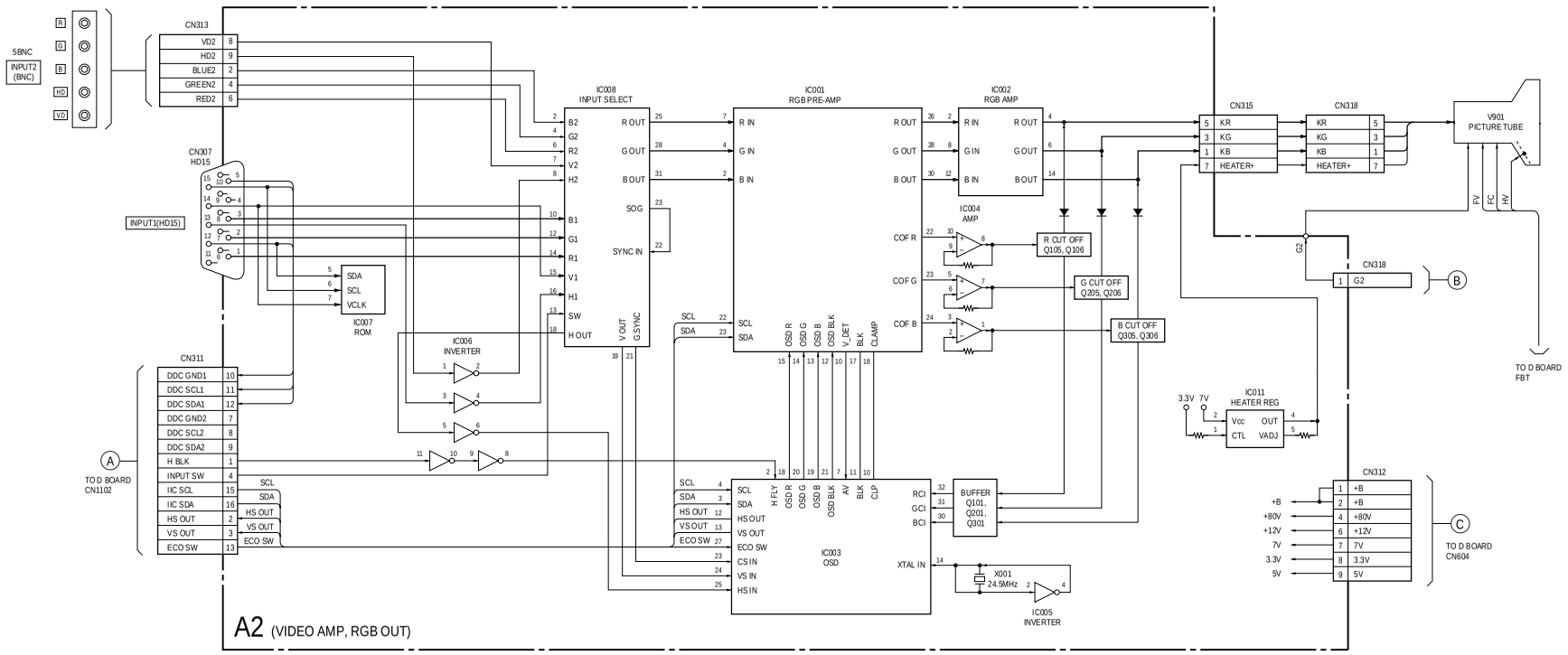
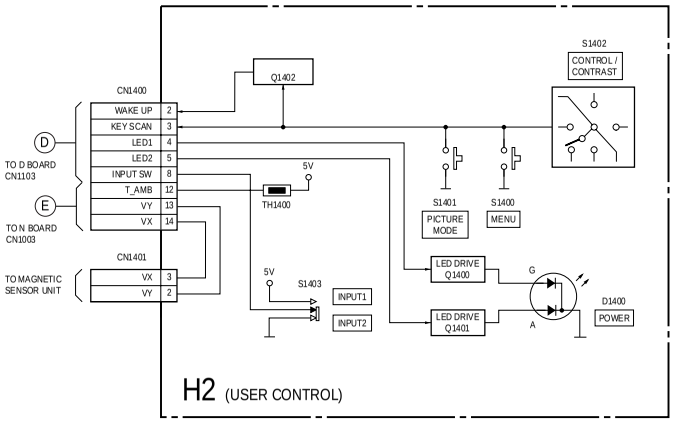
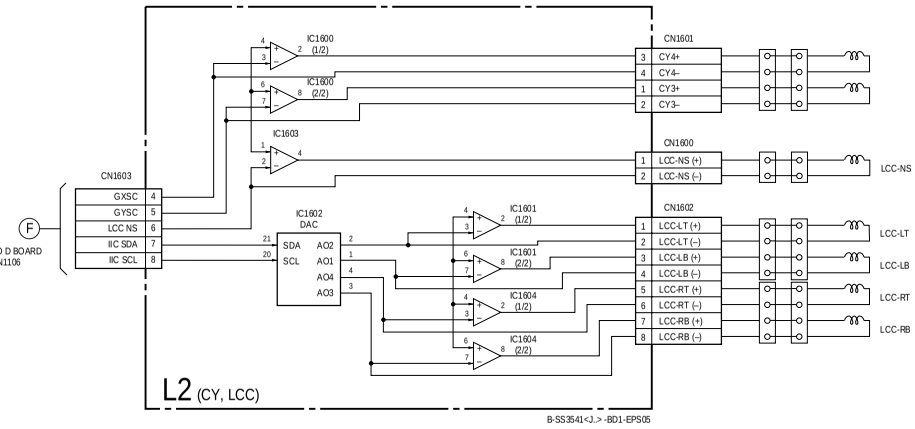
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAMS







B-SS3541<J..> -BD1-EPS05

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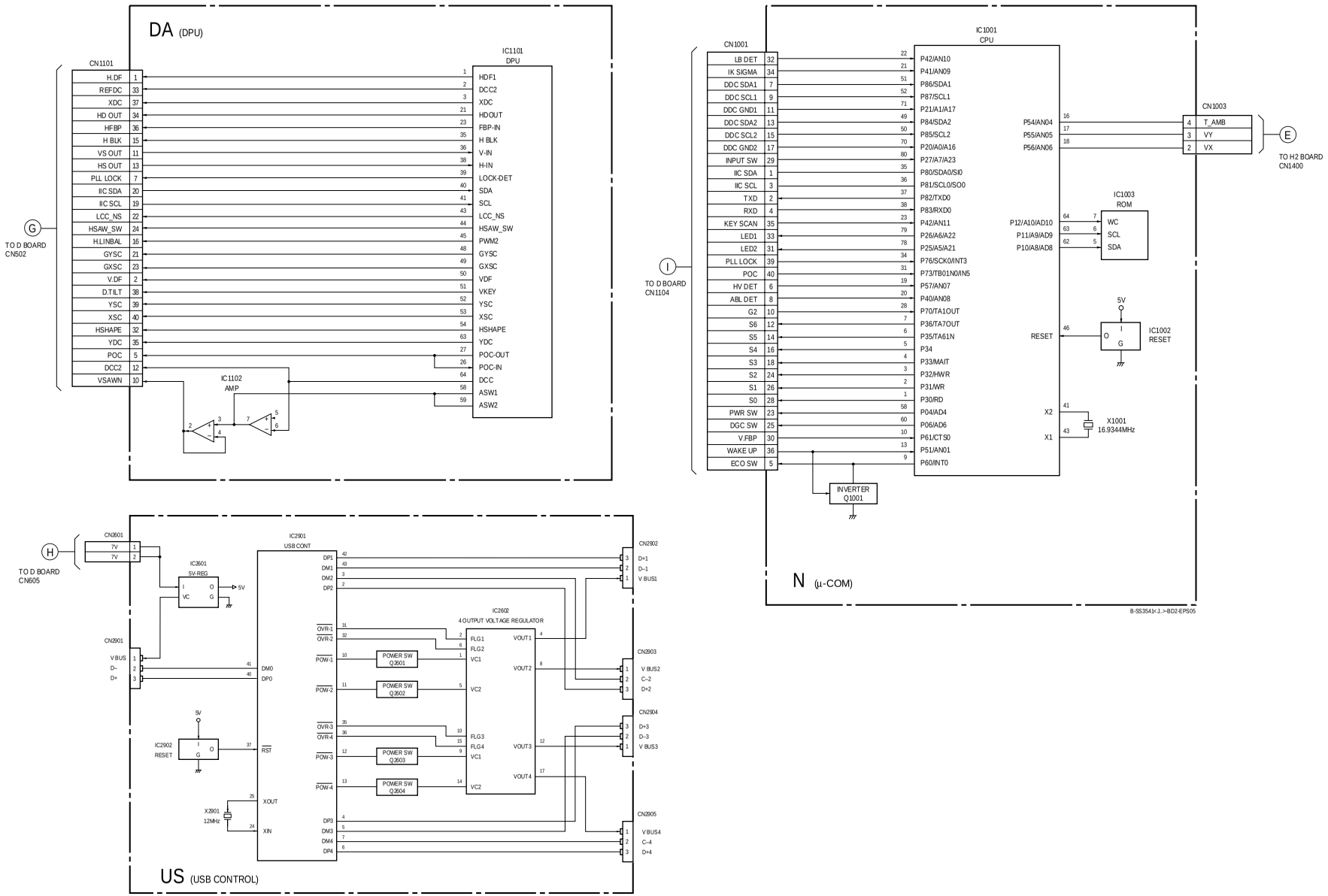

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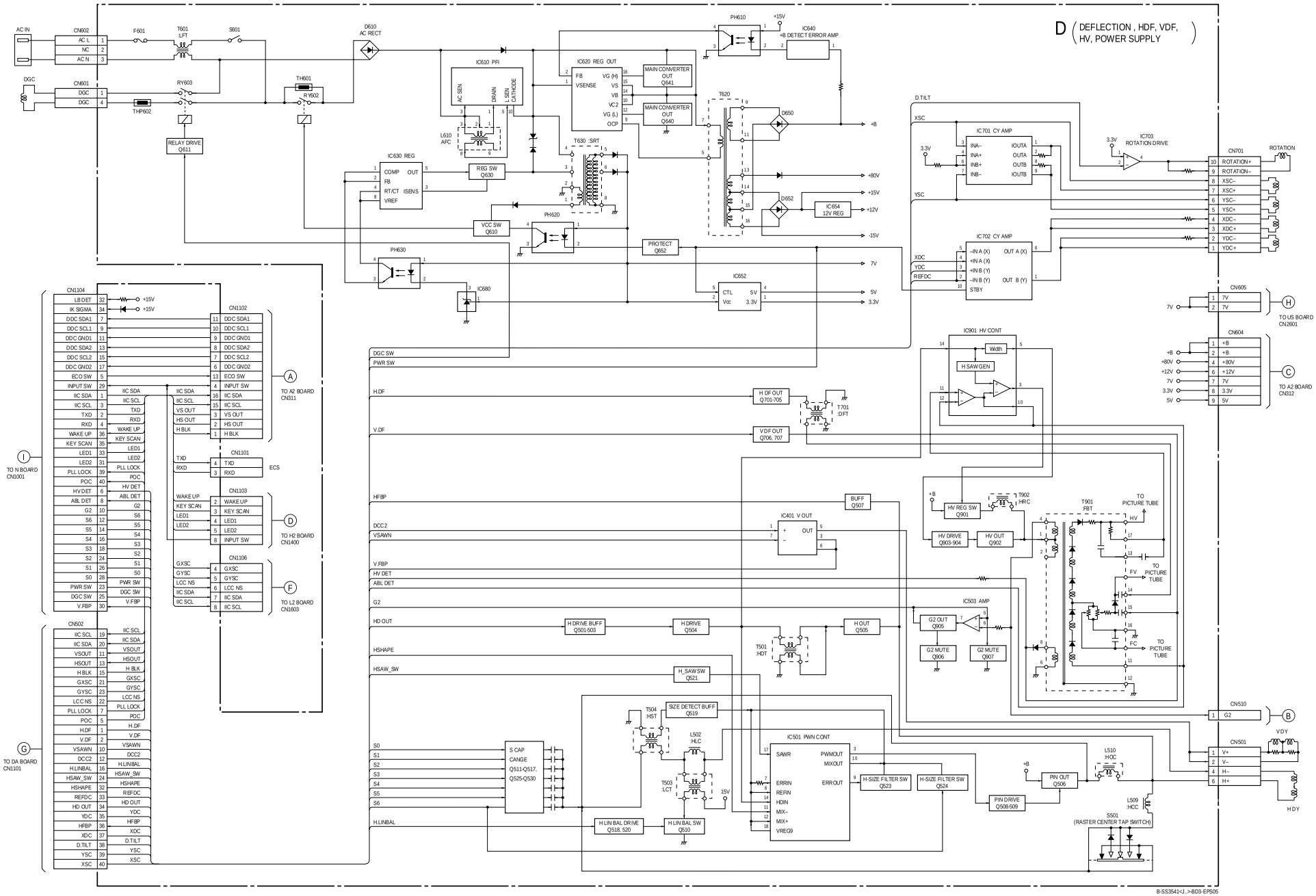

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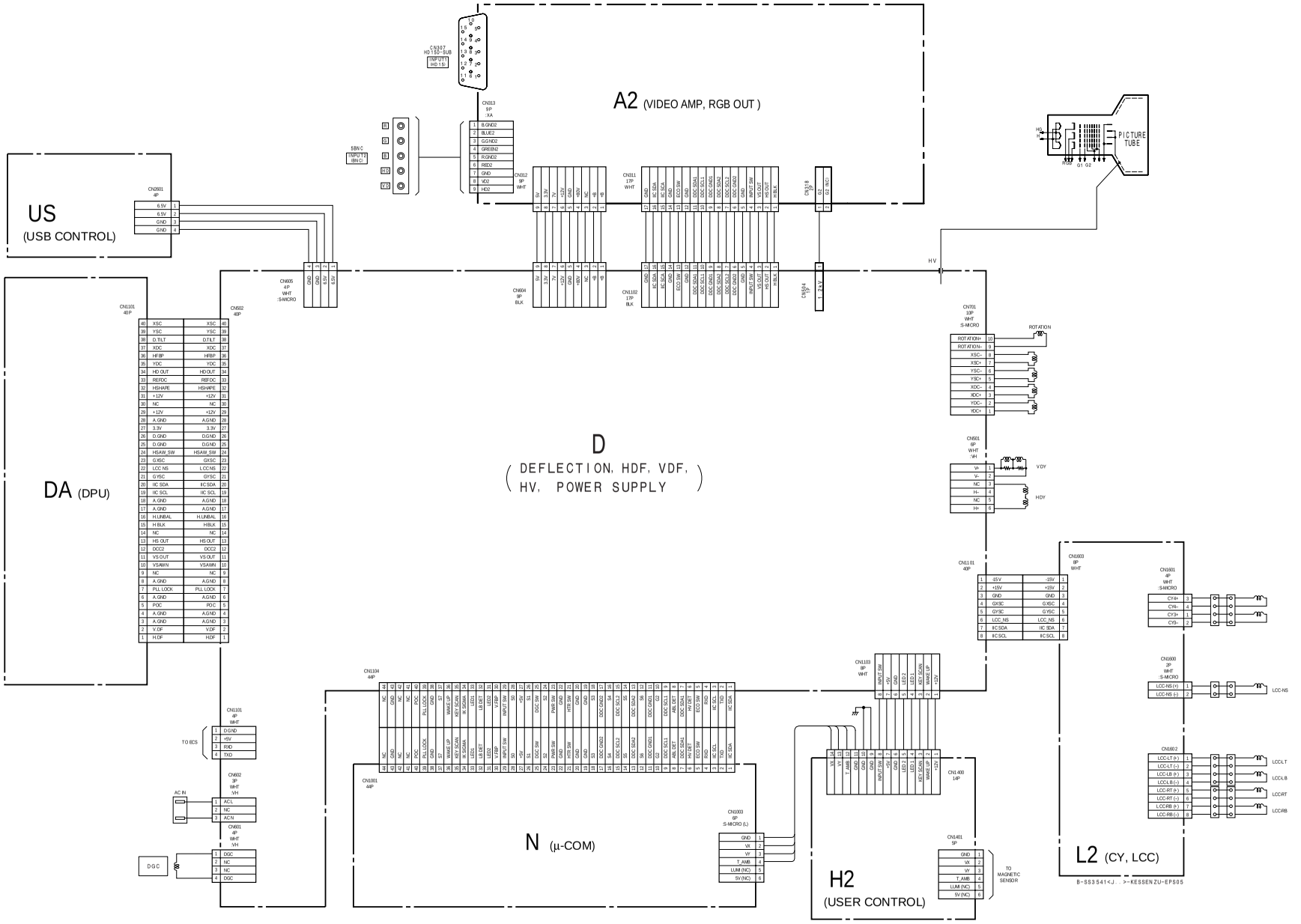
4-2. FRAME SCHEMATIC DIAGRAM



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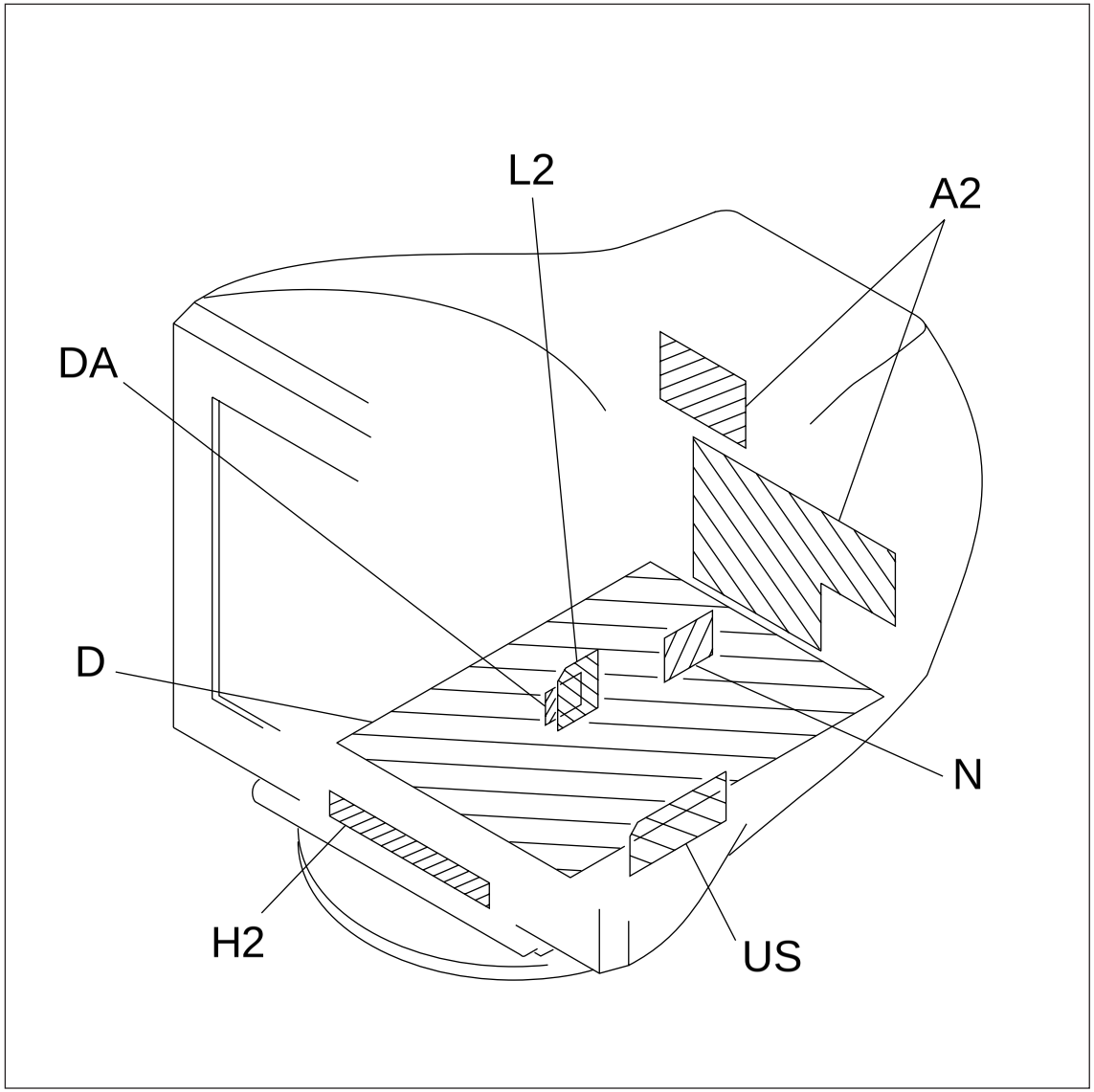
4-3. CIRCUIT BOARDS LOCATION



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4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF)
  Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm

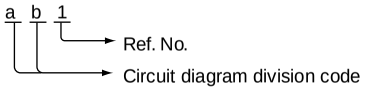
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 2-1)
- When replacing the part in below table, be sure to perform the related adjustment.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Divided circuit diagram
  One sheet of D board circuit diagram is divided into three sheets, each having the code D-ⓐ to D-ⓒ. For example, the destination (ab1) on the code D-ⓐ sheet is connected to (ab1) on the D-ⓑ sheet.



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	Part Replaced (⧓)
HV ADJ	RV901

		Part Replaced (◪)
HV Regulator Circuit Check	D Board	C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT) • Mounted D Board
HV Protector Circuit Check	D Board	C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board
	N Board	IC1001, RB1001 • Mounted N Board
Beam Current Protector Circuit Check	D Board	C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board
	N Board	IC1001, RB1001 • Mounted N Board

Terminal name of semiconductors in silk screen printed circuit (⁎)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base T Emitter	
②	Transistor	—	Collector / Base — Emitter	
③	Diode	⊓	Cathode — — Anode	
④	Diode	T	Cathode / Anode T (NC)	
⑤	Diode	—	Cathode / Anode — (NC)	
⑥	Diode	T	Common / Anode T Cathode	
⑦	Diode	—	Common / Anode — Cathode	
⑧	Diode	T	Common / Anode T Anode	
⑨	Diode	—	Common / Anode — Anode	
⑩	Diode	T	Common / Cathode T Cathode	
⑪	Diode	—	Common / Cathode — Cathode	
⑫	Diode	∥	Anode Anode Cathode ∥ Cathode Anode Anode	
⑬	Transistor (FET)	∥	Drain ∥ Source / Gate	
⑭	Transistor (FET)	⊢	Drain ⊢ Source / Gate	
⑮	Transistor (FET)	∥	□ Source □ Drain □ Gate	
⑯	Transistor	∥	□ Emitter □ Collector □ Base	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

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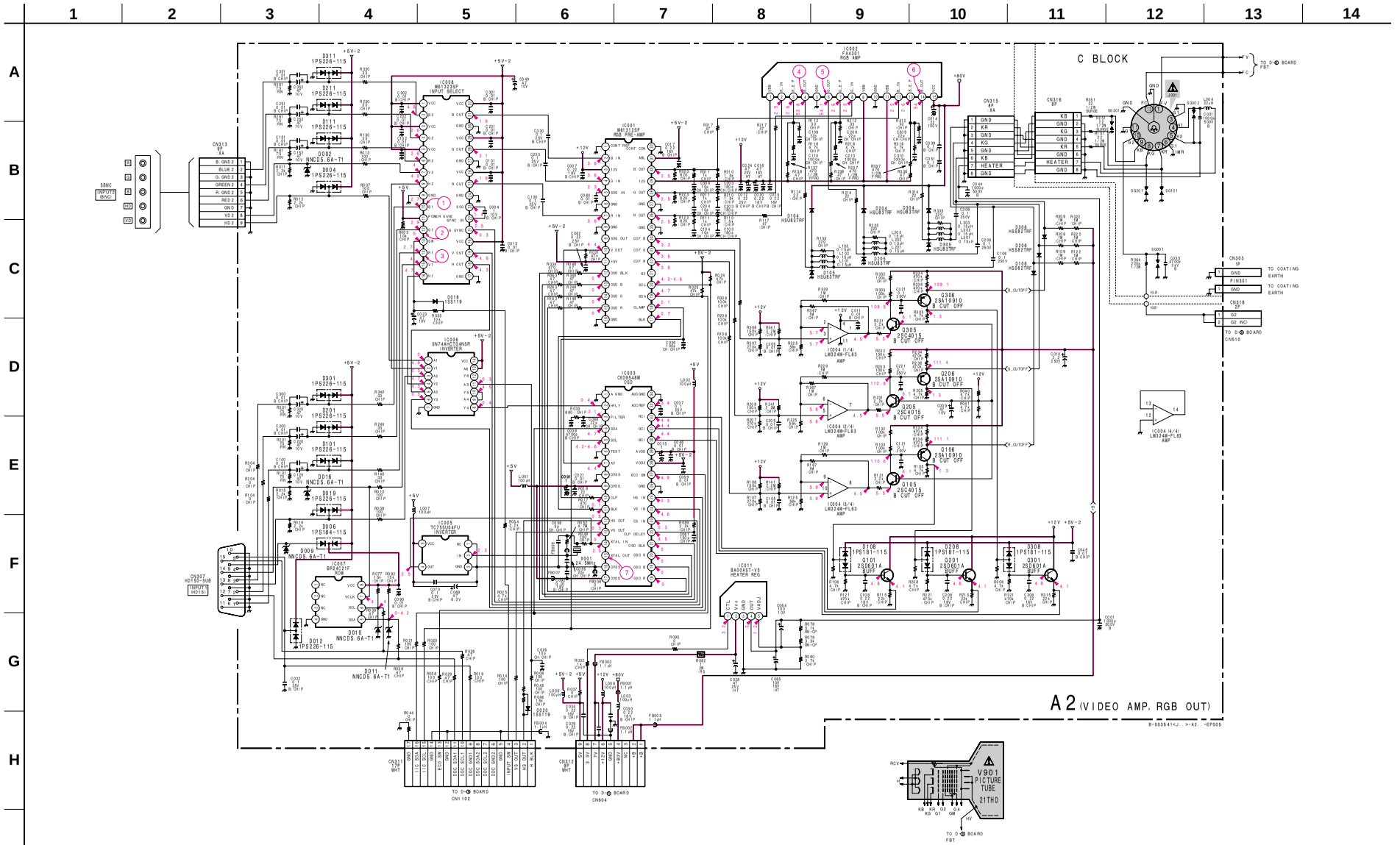
(1) Schematic Diagram of A2 Board



• A2 BOARD WAVEFORMS

①	②	③	④	⑤	⑥	⑦
0.74 Vp-p (H)	1.12 Vp-p (H)	0.73 Vp-p (H)	56.0 Vp-p (H)	54.5 Vp-p (H)	54.5 Vp-p (H)	1.24 Vp-p (24.5 MHz)

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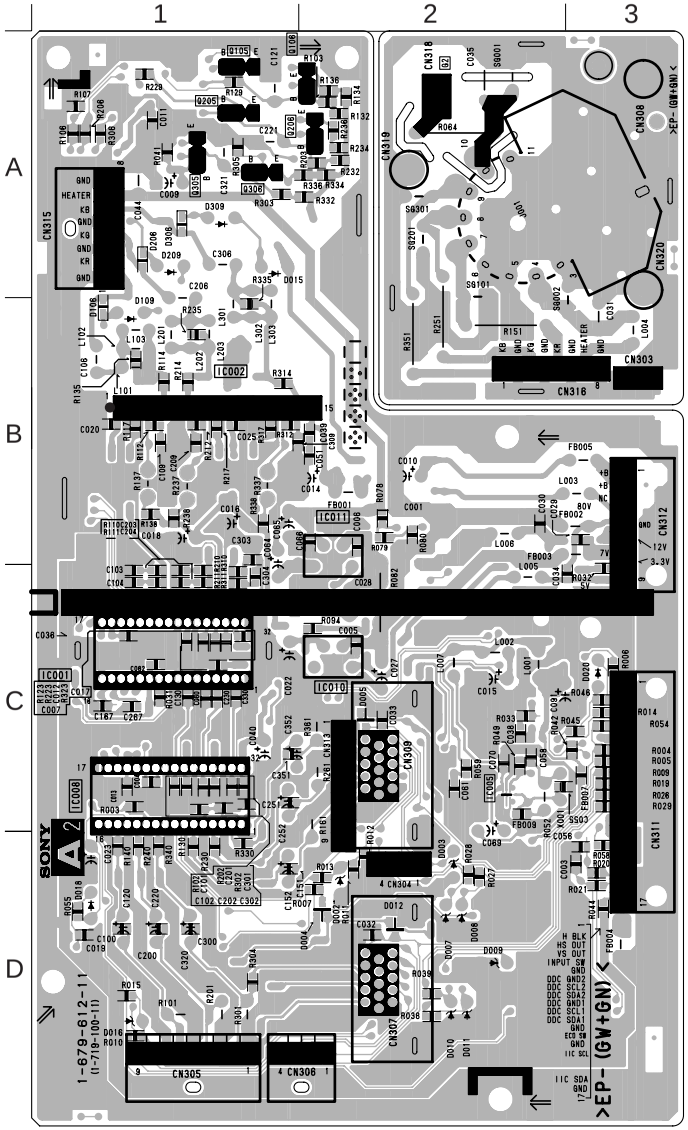
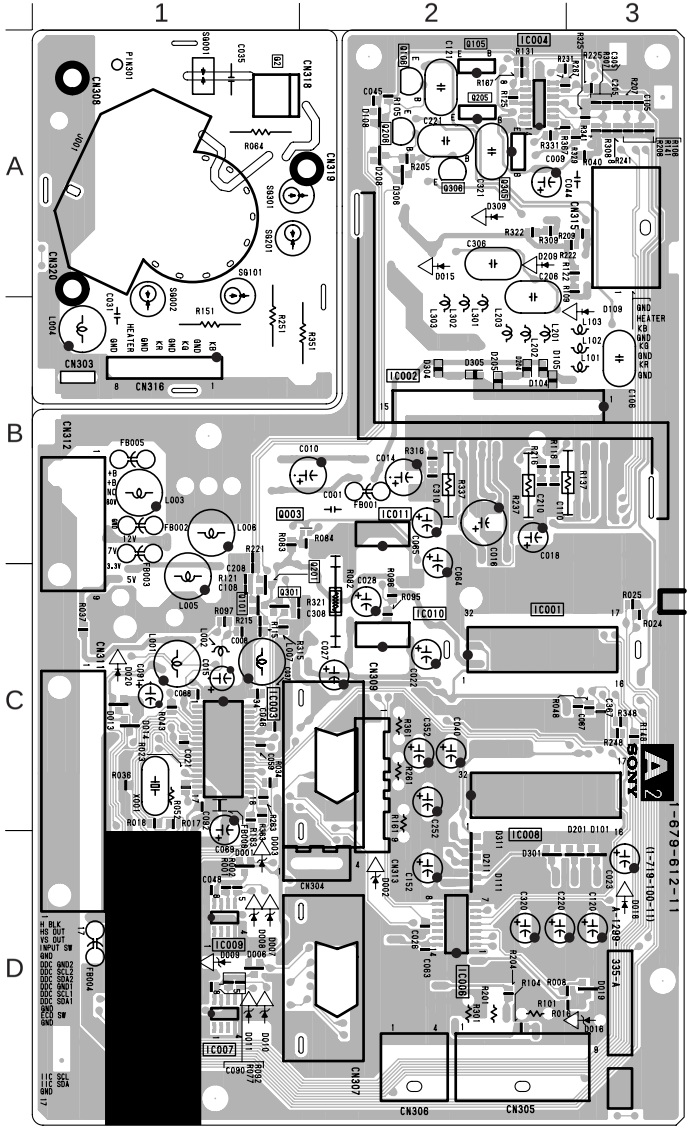
— A2 BOARD (Conductor Side) —



— A2 BOARD (Component Side) —



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

- **A2 BOARD SEMICONDUCTOR LOCATION**

IC

	(Conductor Side)	(Component Side)
IC001	C-1	C-2
IC002	B-1	B-2
IC003		C-1
IC004		A-2
IC005	C-2	
IC006		D-2
IC007		D-1
IC008	C-1	C-2
IC011	B-2	B-2

TRANSISTOR

	(Conductor Side)	(Component Side)	*
Q101		C-1	1
Q105	A-1	A-2	-
Q106	A-2	A-2	-
Q201		C-1	1
Q205	A-1	A-2	-
Q206	A-2	A-2	-
Q301		C-1	1
Q305	A-1	A-2	-
Q306	A-1	A-2	-

DIODE

	(Conductor Side)	(Component Side)	*
D002	D-2	D-2	-
D004	D-2		6
D006		D-1	9
D009	D-2	D-1	-
D010	D-2	D-1	-
D011	D-2	D-1	-
D012	D-2		6
D016	D-1	D-3	-
D018	D-1	D-3	-
D019		D-3	7
D020	C-3	C-1	-
D101		D-3	7
D104		B-2	3
D105		B-2	3
D106	B-1		3
D108		A-2	qa
D111		D-2	7
D201		D-3	7
D204		B-2	3
D205		B-2	3
D206	A-1		3
D208		A-2	qa
D211		D-2	7
D301		D-2	7
D304		B-2	3
D305		B-2	3
D306	A-1		3
D308		A-2	qa
D311		D-2	7

CRYSTAL

	(Conductor Side)	(Component Side)
X001	C-3	C-1

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-7)

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(2) Schematic Diagrams of D (ⓐ, ⓑ, ⓒ) Board

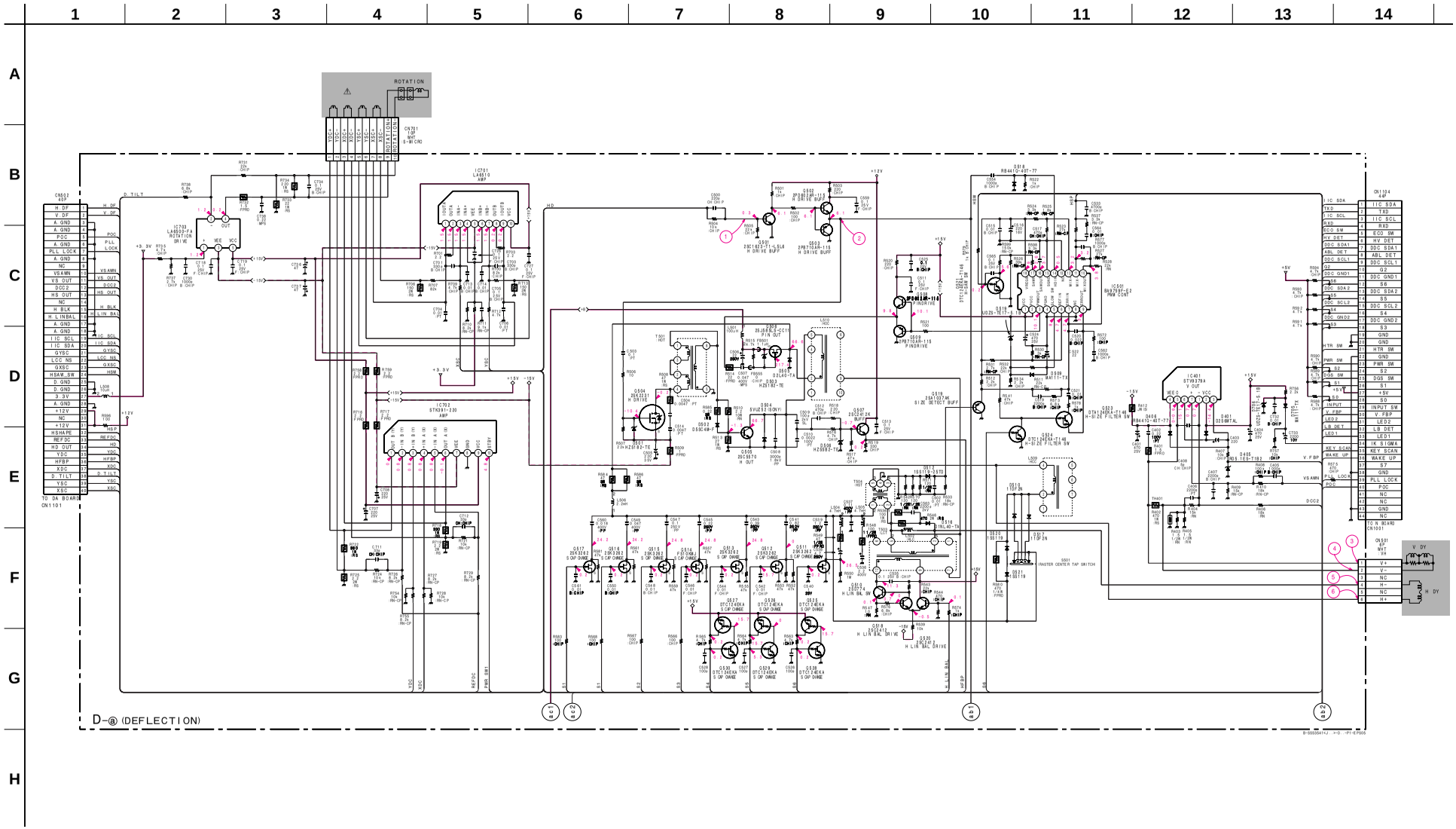
- Divided circuit diagram

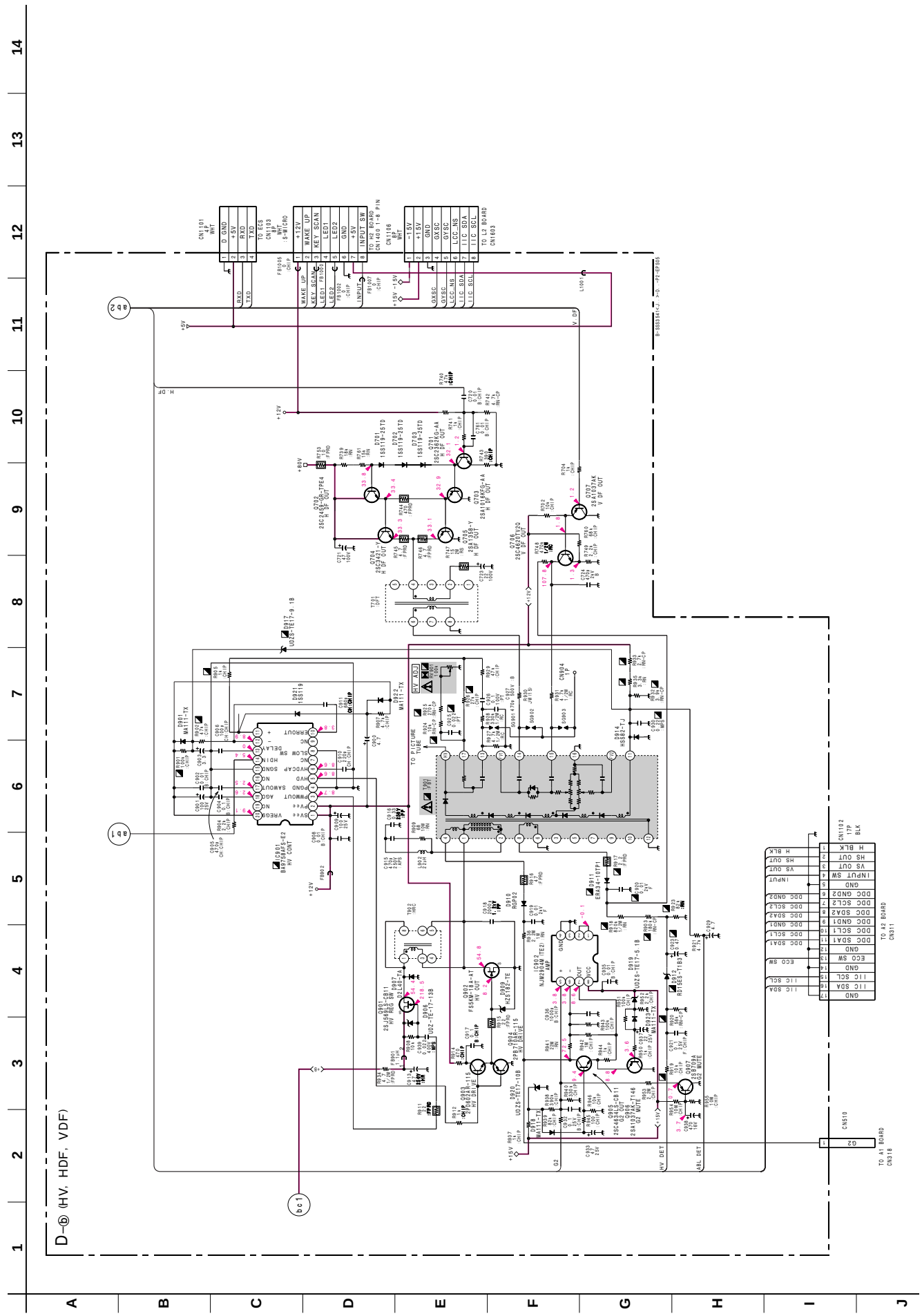
  One sheet of D board circuit diagram is divided into three sheets, each having the code D-ⓐ to D-ⓒ. For example, the destination (ab1) on the code D-ⓐ sheet is connected to (ab1) on the D-ⓑ sheet.

  a b 1 → Ref. No.
  → Circuit diagram division code

• D-ⓐ BOARD WAVEFORMS

①	②	③	④	⑤	⑥
0.71 Vp-p (H)	11.3 Vp-p (H)	59.5 Vp-p (V)	1.7 Vp-p (V)	180 Vp-p (H)	640 Vp-p (H)





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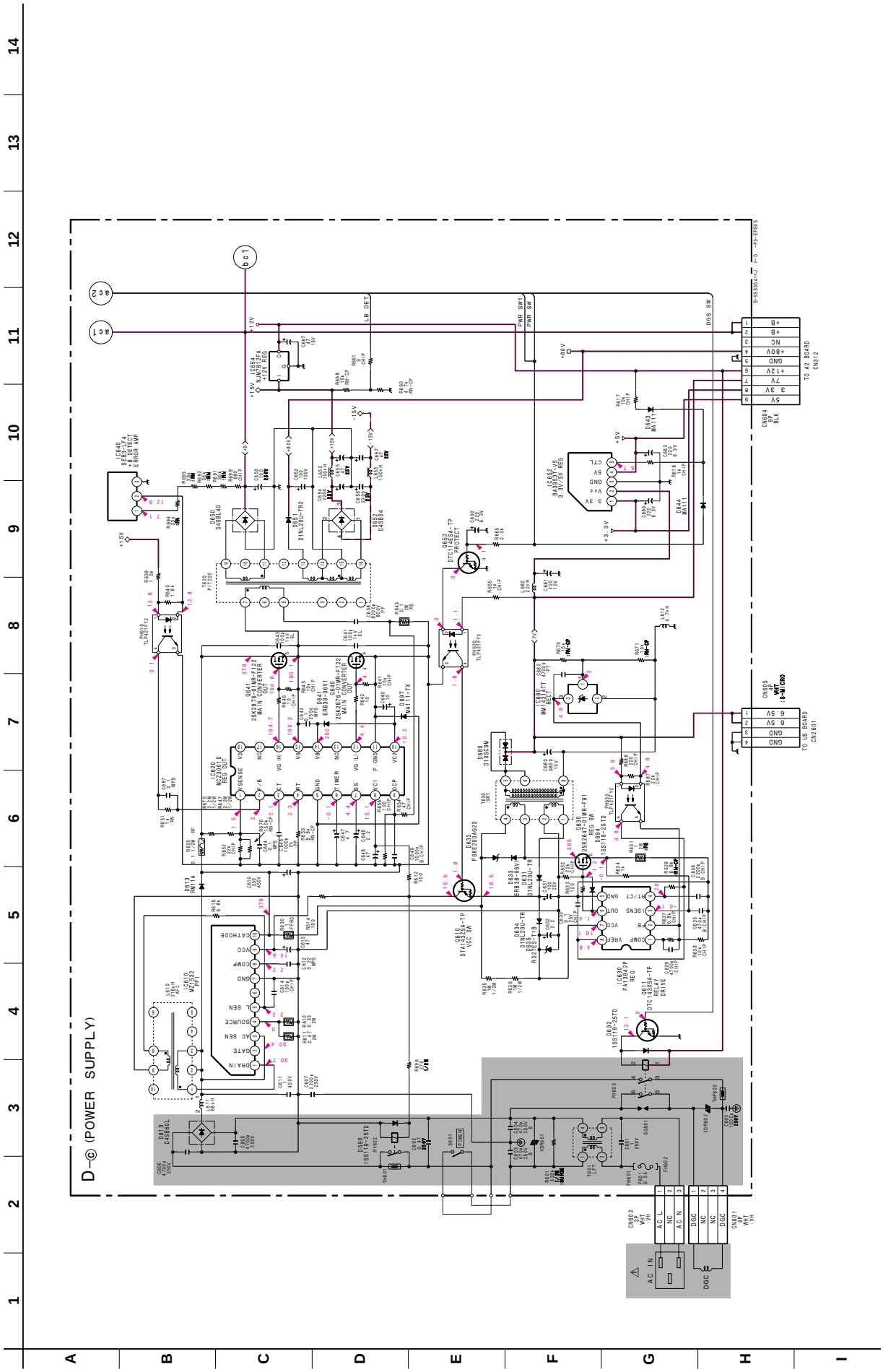

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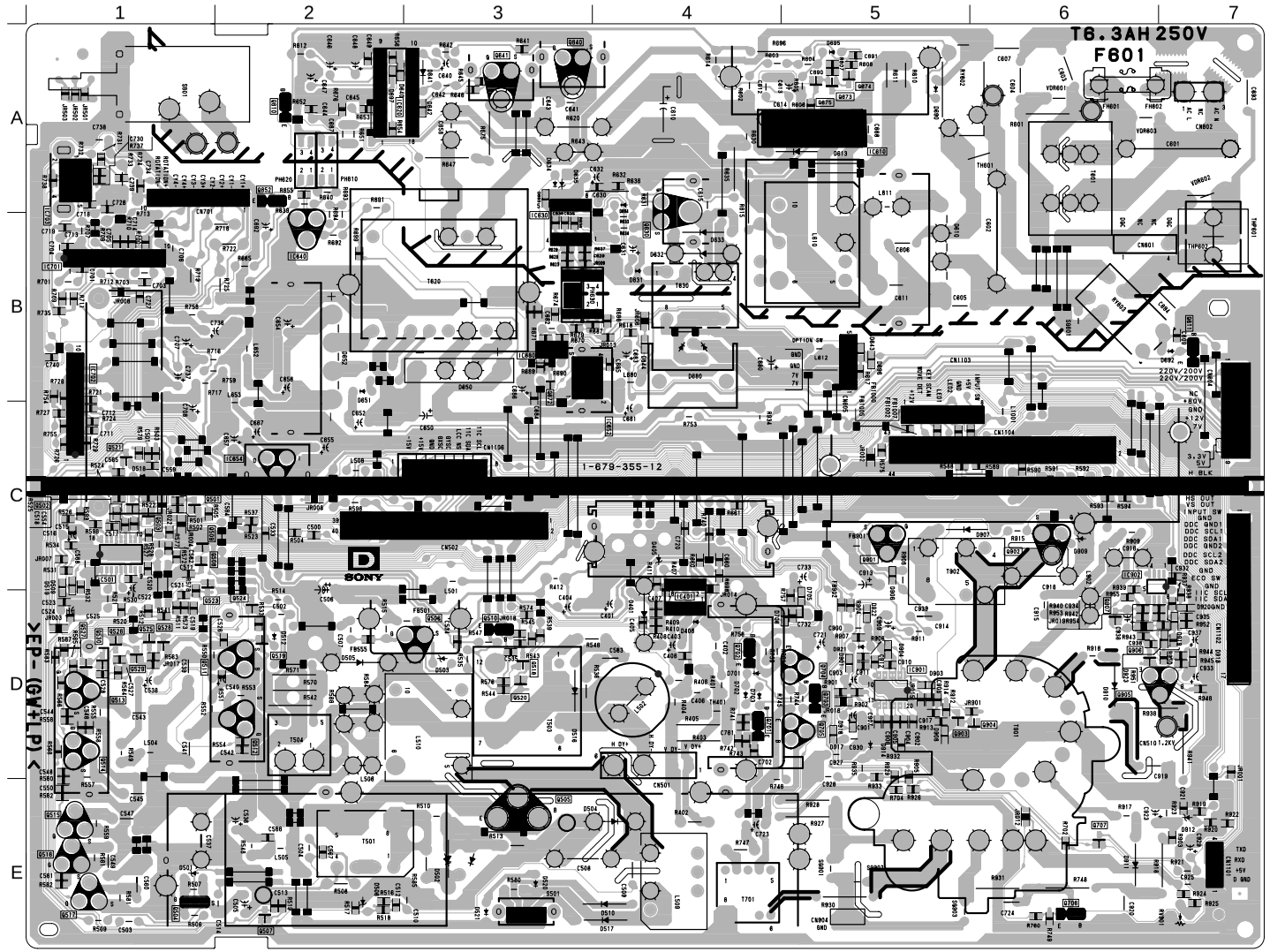
— D BOARD —



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• **D BOARD SEMICONDUCTOR LOCATION**

IC		
IC401	D-4	
IC501	C-1	
IC610	A-5	
IC620	A-2	
IC630	B-3	
IC640	B-2	
IC652	B-3	
IC654	C-2	
IC680	B-3	
IC701	B-1	
IC702	B-1	
IC703	A-1	
IC901	D-5	
IC902	C-6	

TRANSISTOR		
		*
Q501	C-1	①
Q502	C-1	①
Q503	C-1	①
Q504	E-1	-
Q505	E-3	-
Q506	D-3	-
Q507	E-2	①
Q508	C-1	①
Q509	C-1	①
Q510	D-3	-
Q511	D-2	-
Q512	D-2	-
Q513	D-1	-
Q514	D-1	-
Q515	E-1	-
Q516	E-1	-
Q517	E-1	-
Q519	D-2	①
Q521	C-1	①
Q523	C-1	①
Q524	D-2	①
Q610	A-2	-
Q611	B-7	-
Q630	B-4	-
Q640	A-3	-
Q641	A-3	-
Q652	A-2	-
Q701	D-4	-
Q702	D-4	-
Q703	D-5	-
Q704	D-5	-
Q705	D-5	-
Q706	E-6	-
Q707	E-6	①
Q901	C-5	-
Q902	C-6	-
Q903	D-5	①
Q904	D-5	①
Q905	D-6	-
Q906	D-6	①
Q907	D-6	①

DIODE		
		*
D401	D-4	-
D405	C-4	-
D406	D-4	-
D501	E-1	-
D502	E-3	-
D503	D-3	-
D504	E-4	-
D505	D-2	-
D506	E-2	-
D509	C-1	③
D510	E-4	-
D512	D-2	-
D516	D-3	-
D517	E-4	-
D518	C-1	-
D519	C-1	③
D520	E-3	-
D521	E-3	-
D610	B-5	-
D613	A-5	-
D631	B-4	-
D632	B-4	-
D633	B-4	-
D634	A-3	-
D635	A-3	-
D641	A-3	-
D643	B-5	③
D644	B-4	③
D650	B-3	-
D651	B-2	-
D652	B-2	-
D680	B-4	-
D690	A-5	-
D692	B-7	-
D694	A-4	-
D697	A-2	③
D701	D-4	-
D702	D-4	-
D703	D-4	-
D705	C-5	③
D706	D-4	③
D901	D-5	③
D906	C-5	③
D907	C-5	-
D909	C-6	-
D910	D-6	-
D911	E-6	-
D912	E-7	-
D914	D-5	-
D917	D-5	③
D918	D-7	③
D919	D-7	③
D920	D-7	③
D921	D-5	-
D922	D-5	③
D923	D-7	③

VARIABLE RESISTOR	
RV901	E-7

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-7)

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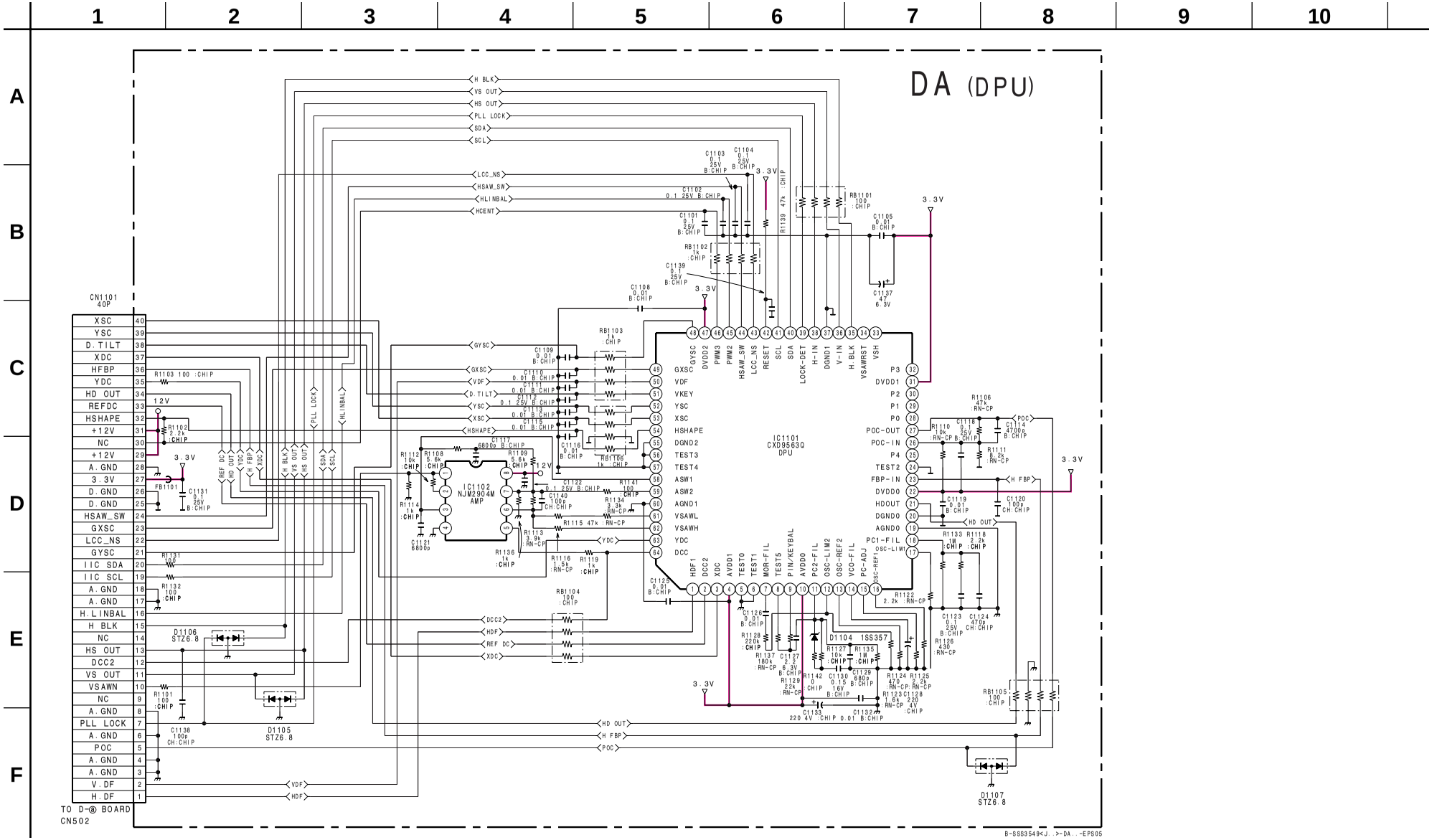
(3) Schematic Diagram of DA Board



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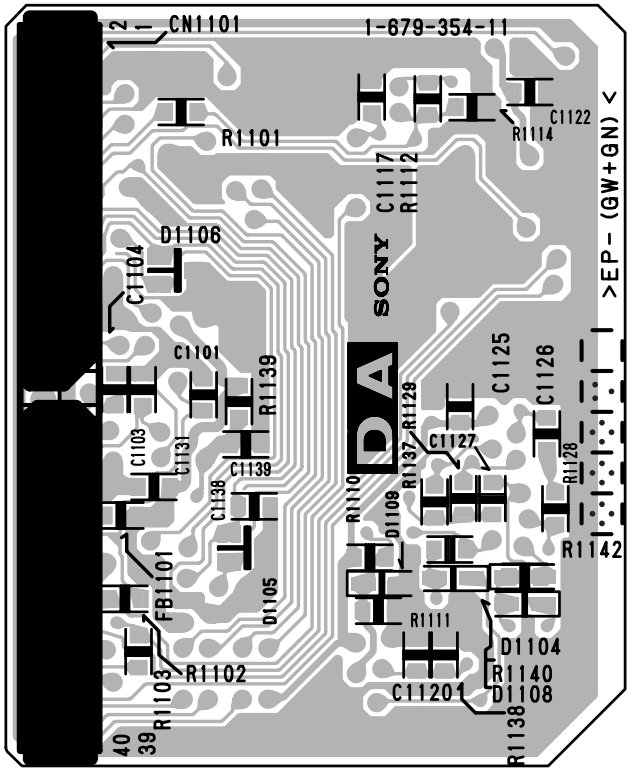
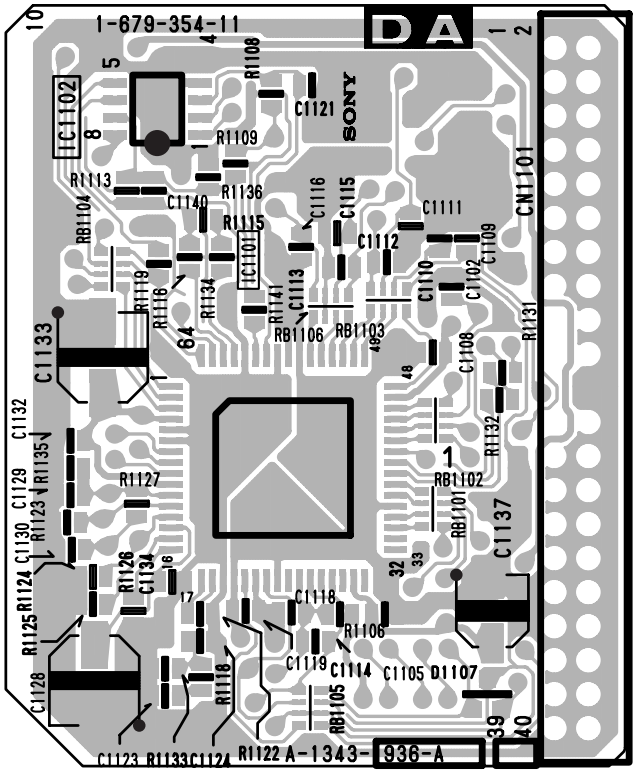
DA [DPU]

— DA BOARD (Conductor Side) —



— DA BOARD (Component Side) —



DA BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D1104	③
D1105 - D1107	⑩

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-7)

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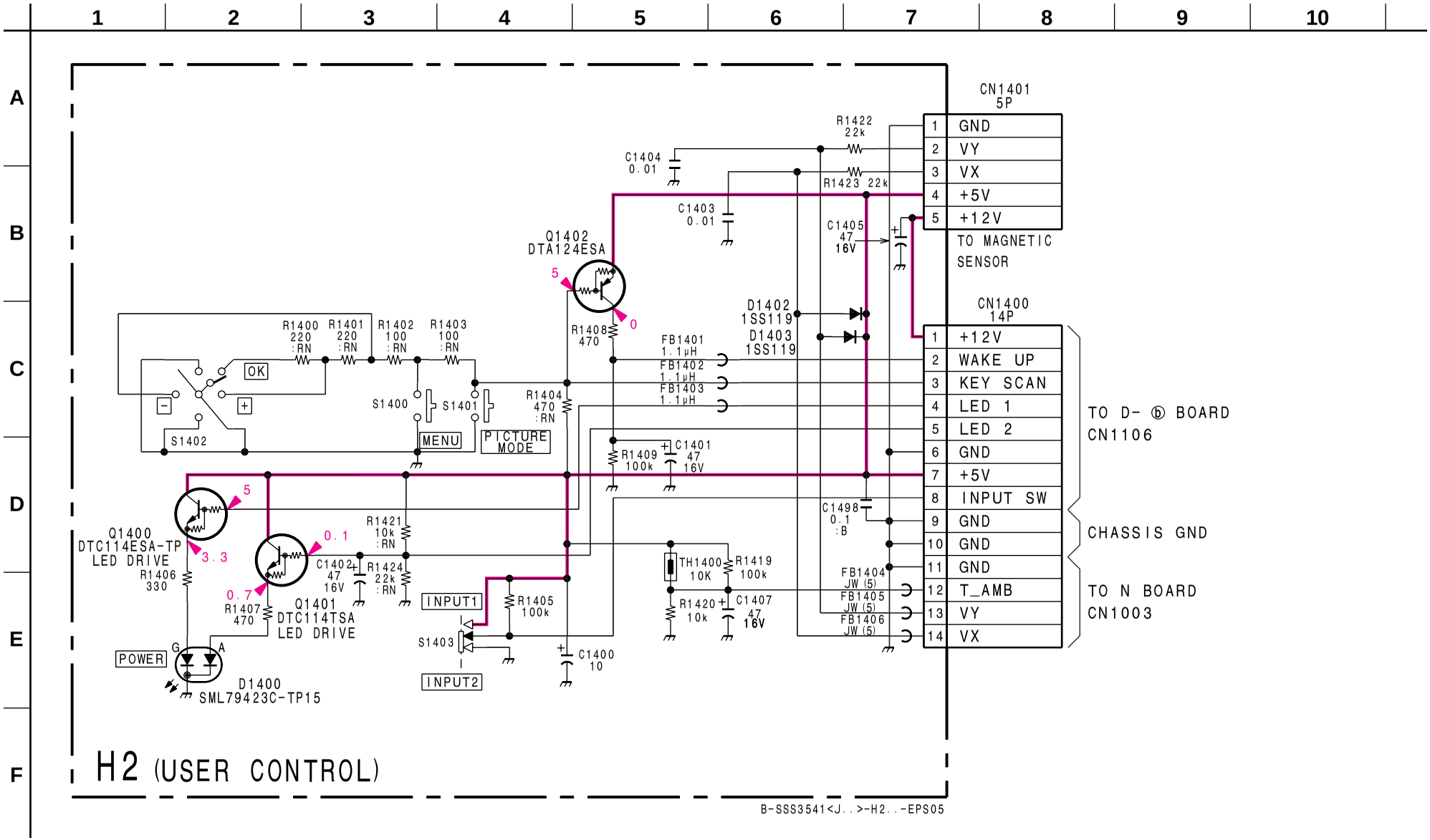
(4) Schematic Diagram of H2 Board



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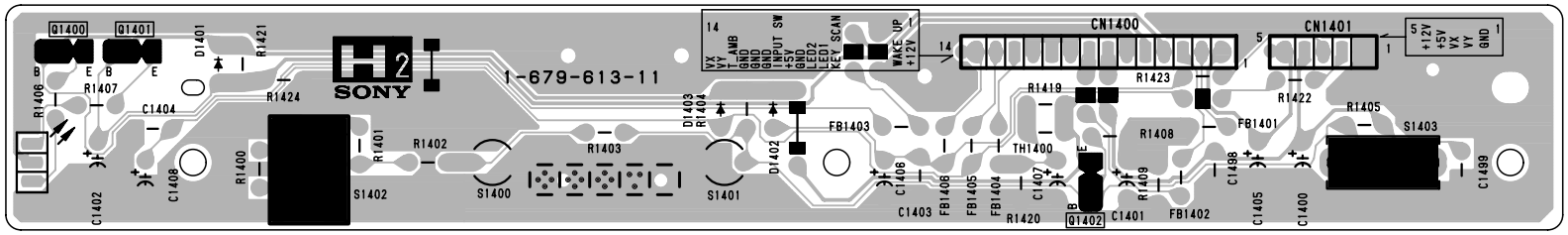
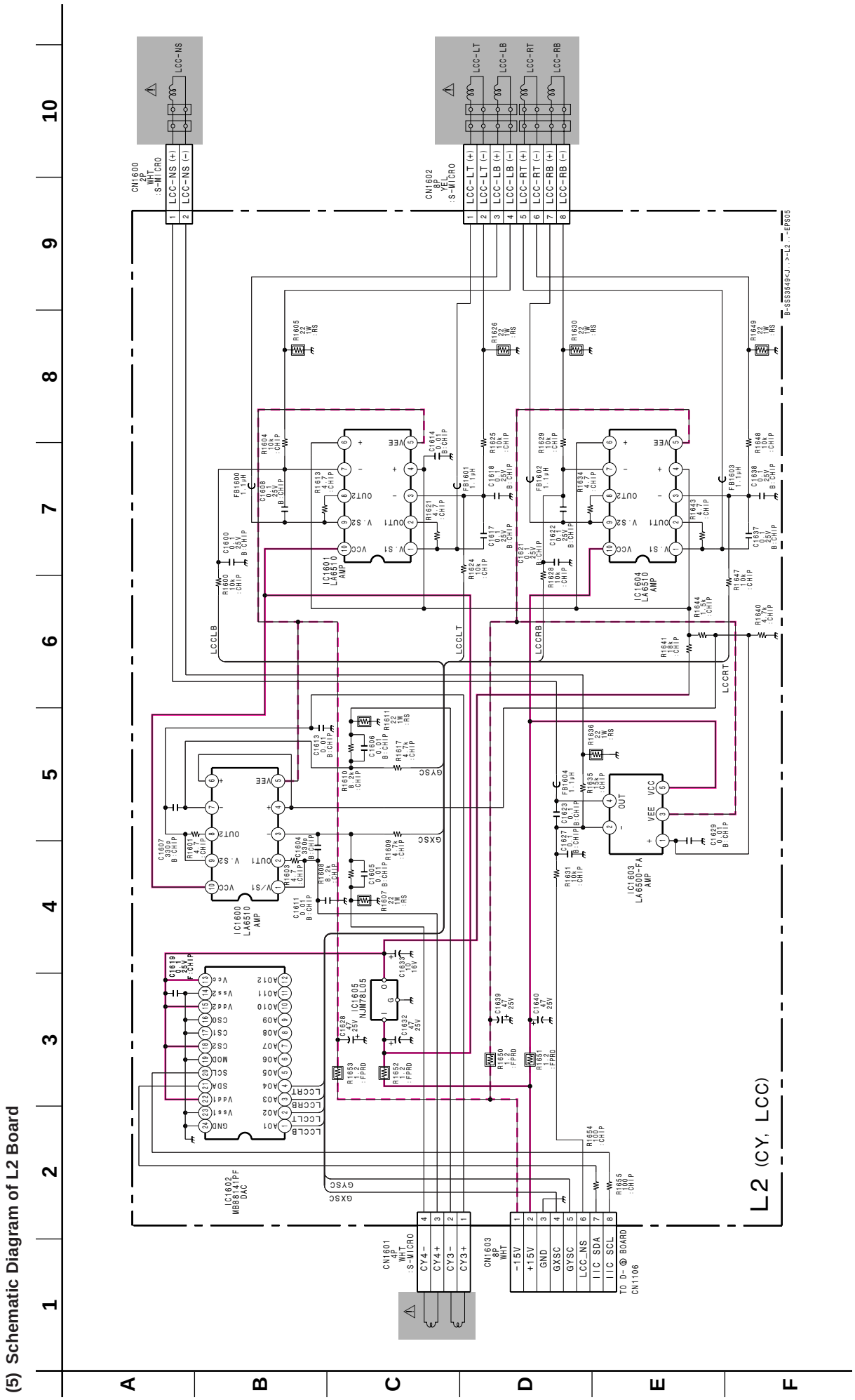
– H2 BOARD –



(5) Schematic Diagram of L2 Board



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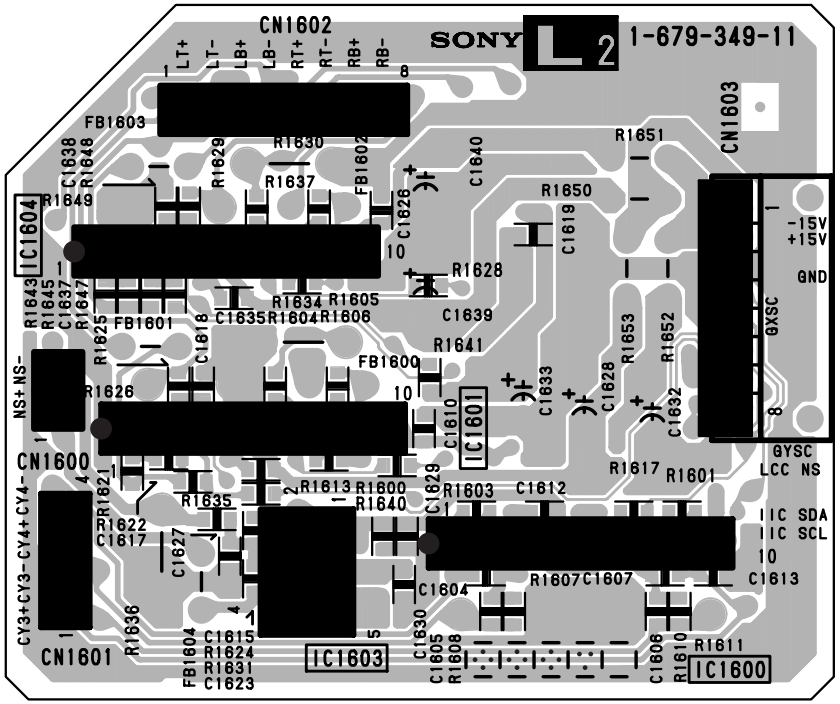
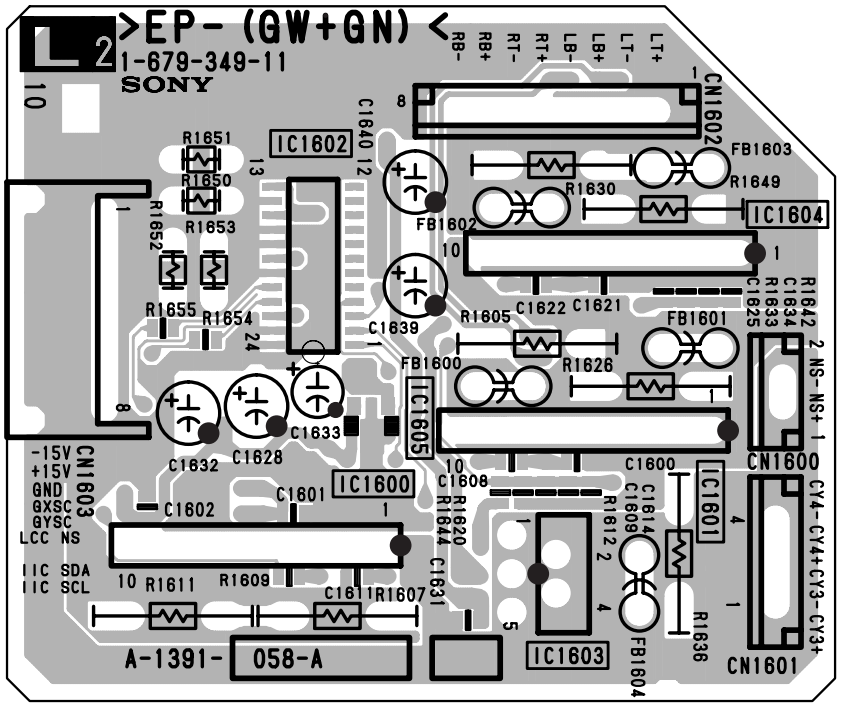
— L2 BOARD (Conductor Side) —



— L2 BOARD (Component Side) —



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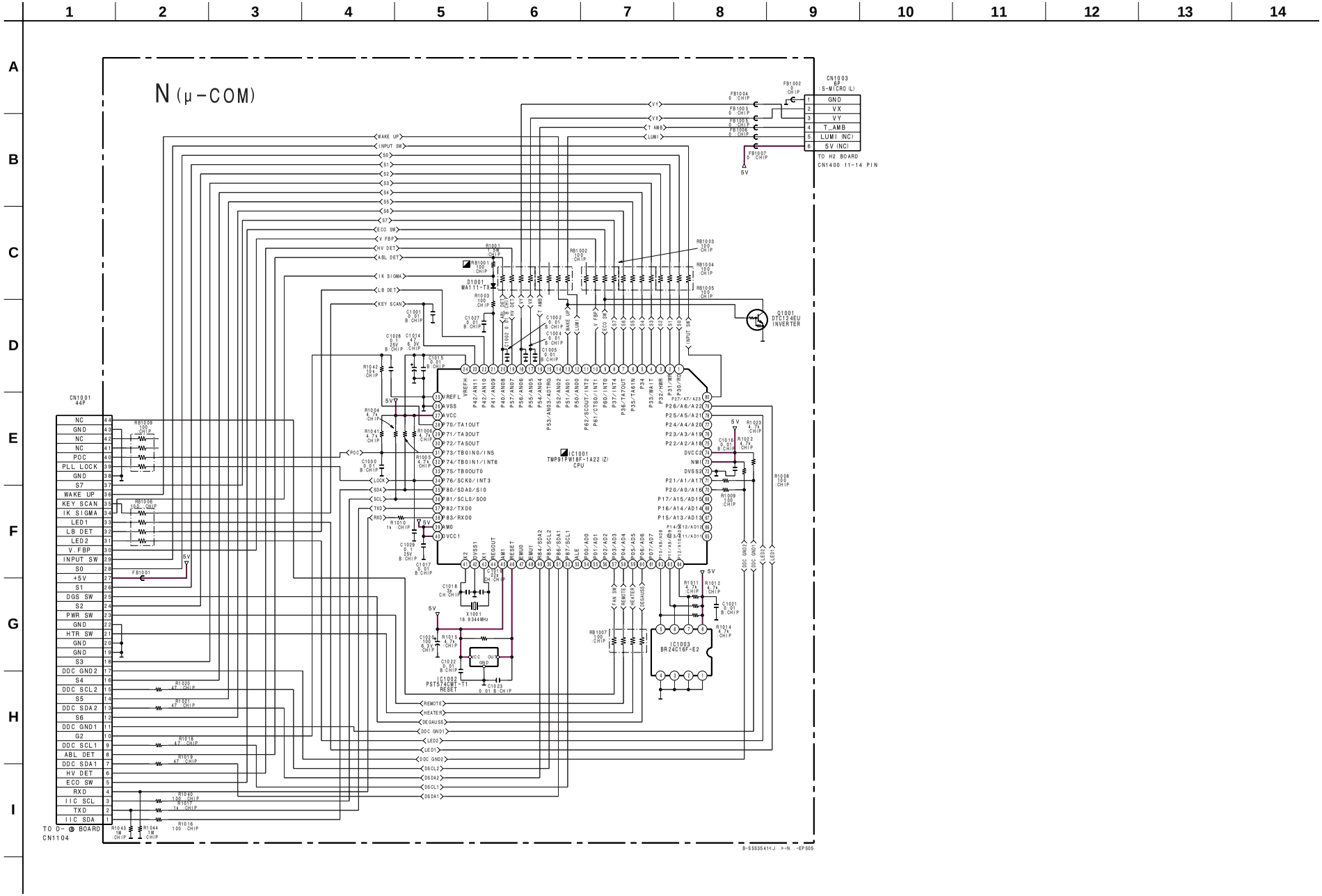
(6) Schematic Diagram of N Board



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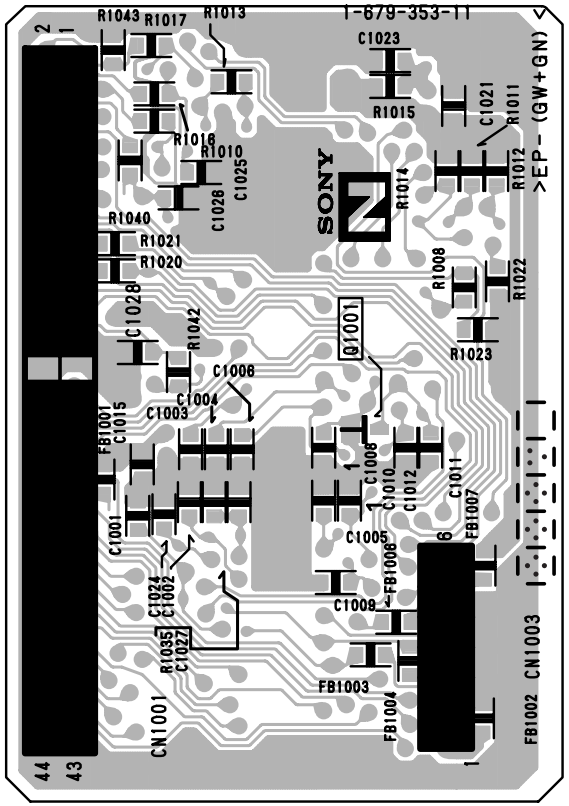
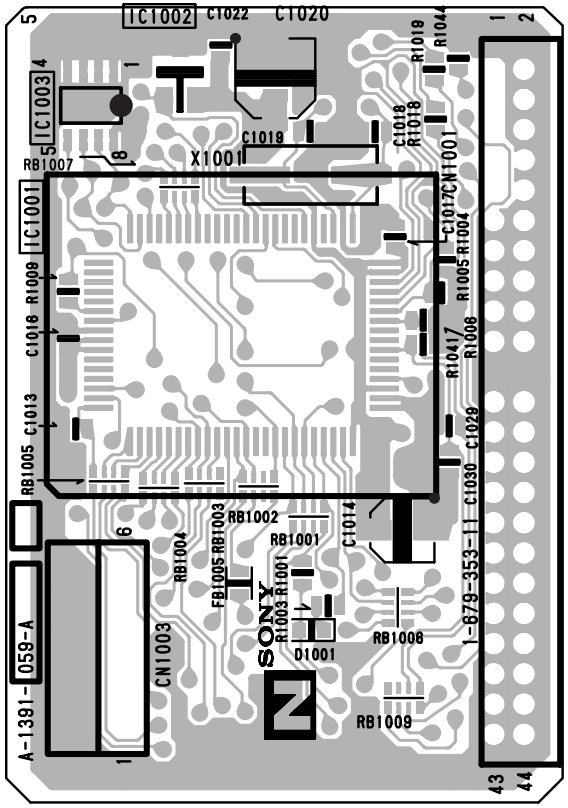
N [μ-COM]

— N BOARD (Conductor Side) —



— N BOARD (Component Side) —



N BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D1001	③
Q1001	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-7)

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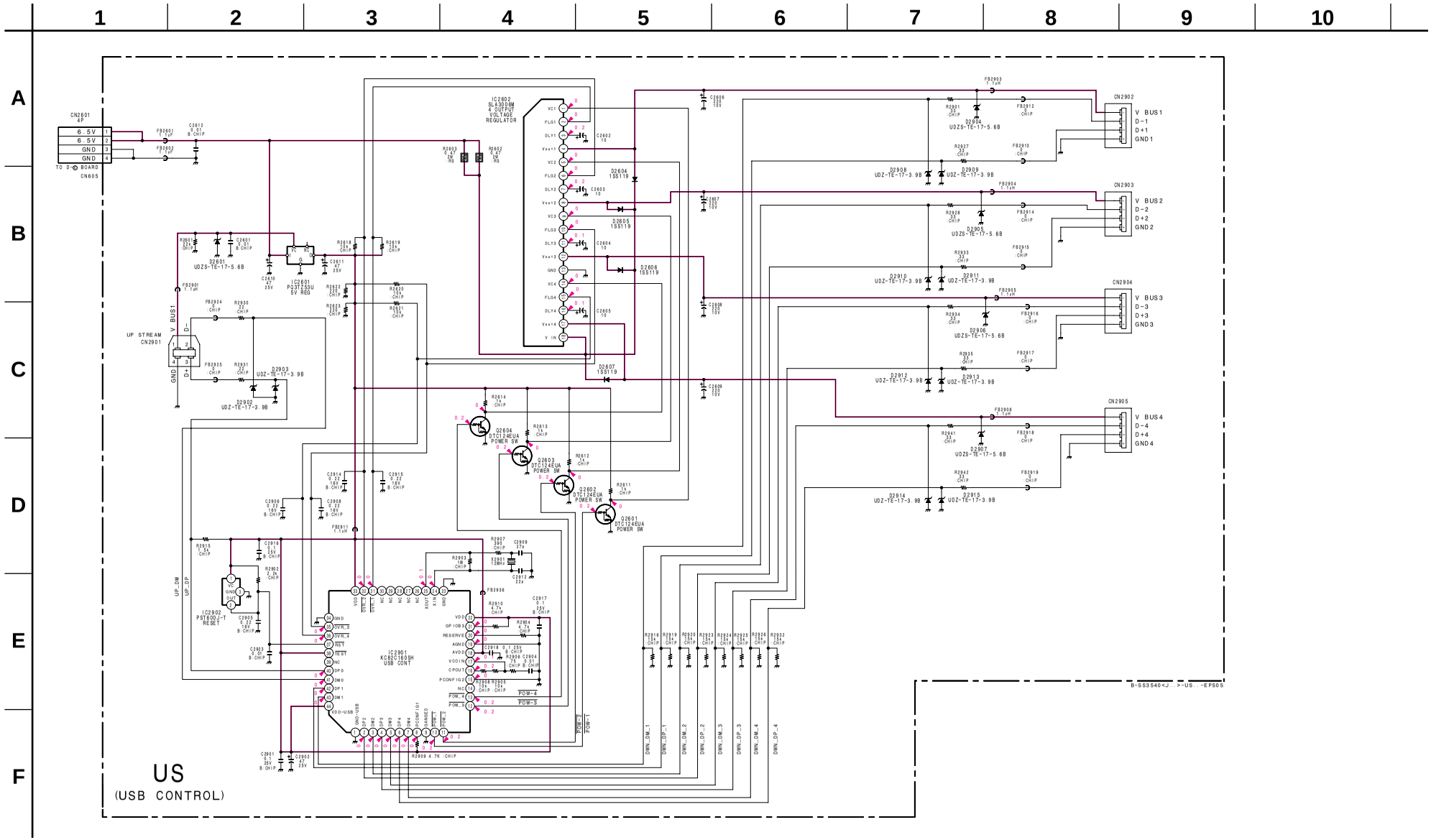
(7) Schematic Diagram of US Board



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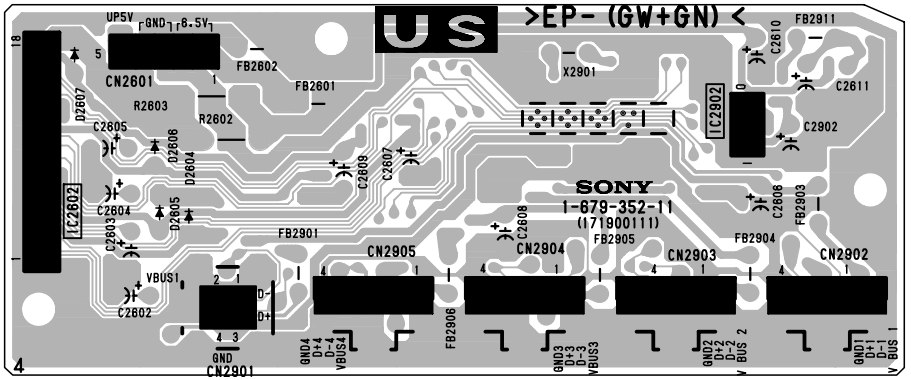
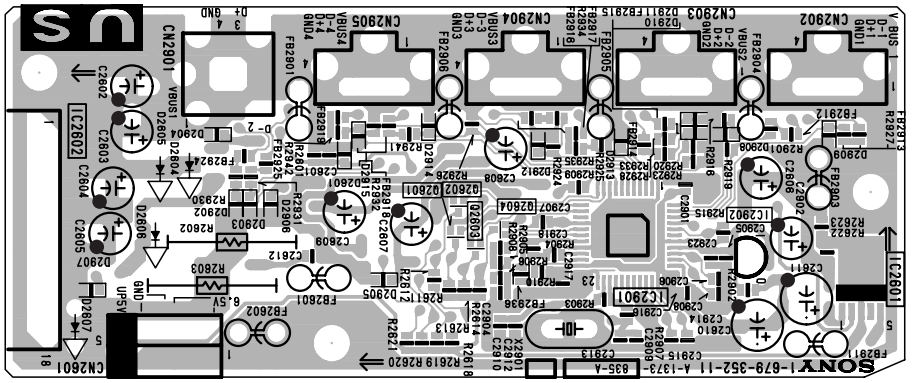
US [USB CONTROL]

— US BOARD (Conductor Side) —



— US BOARD (Component Side) —



US BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D2601, D2902 - D2915	③
Q2601 - Q2604	②

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-7)

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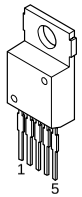
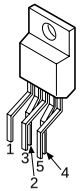
4-5. SEMICONDUCTORS

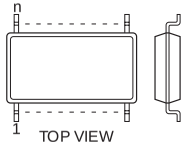
BA00AST-V5
LA6500-FA



BA3953T-T5

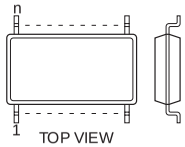


BA9758AFS-E2
BA9758FS-E2



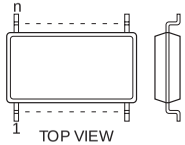
20 pin SOP

BA9759F-E2



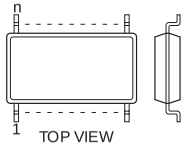
18 pin SOP

BR24C16F-E2
BR24C21F-E2
NJM2904M
NJM2904M(TE2)



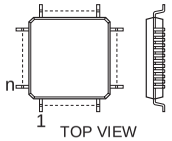
8 pin SOP

CXD9548M



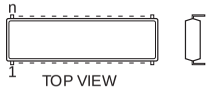
34 pin SOP

CXD9563Q



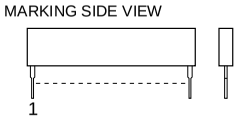
64 pin QFP

FA13842P



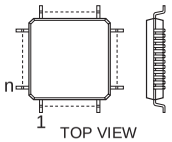
8 pin DIP

FA4301



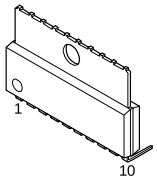
15 pin SIP

KC82C160SH

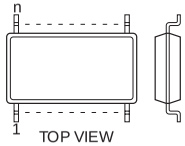


44 pin QFP

LA6510



MB88141PF-ER

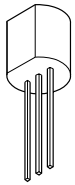


24 pin SOP

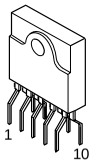
MCZ3001D

18 pin DIP

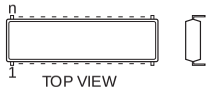
MM1431ATT



MZ1532

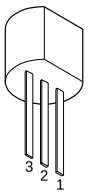


M61312SP
M61323SP

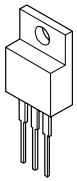


32 pin DIP

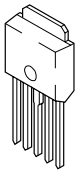
NJM78L05UA-TE1



NJM7812FA
SEB3-LF4



PQ3DZ53U
PQ3TZ53U



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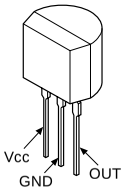

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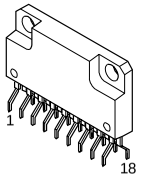
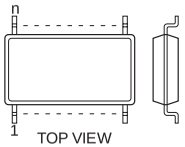
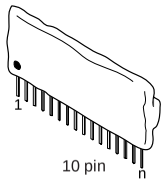


LM324M
LM324M-FL63
SN74AHCT04NSR



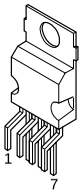
14 pin SOP

STK391-220



10 pin

STV9379
STV9379A



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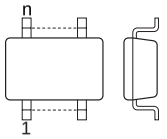
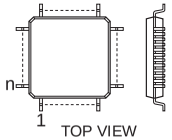


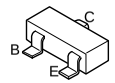
5 pin Chip

TMP91PW18F-1A22(Z)

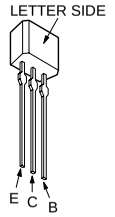


80 pin QFP

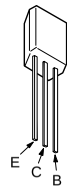
DTA124EKA-T146
DTC124EK
DTC124EKA-T146
2PB710AR-115
2PD602AR-115
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SC1623-T1-L5L6
2SC2412K-T-146-Q
2SC2412K-T-146-QR
2SD601A-Q
2SD601A-QRS-TX



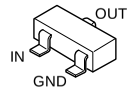
DTA124ESA
DTA124ESA-TP
DTC114ESA
DTC114ESA-TP
DTC143XSA
DTC143XSA-TP



DTA143ZSA-TP
DTC114TSA
DTC114TSA-TP



DTC124EUA-T106
DTC124EUT106



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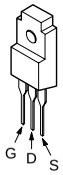
FS5KM-18A-AT
2SK2876-01MR-F122



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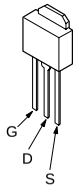
2SK2231



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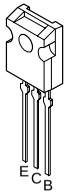

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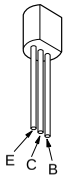
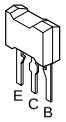
2SA10910-TPE2
2SC2362KF-AA
2SC2362K-G
2SC2362KG-AA



2SC4015TV2



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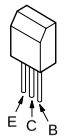
2SD774-34
2SD774-T-34



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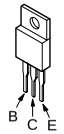

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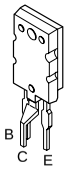
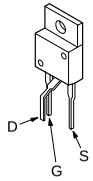


2SJ569LS-CB11
2SJ569LS-CC11
2SK3262-01MR-F119



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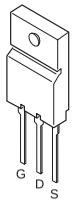
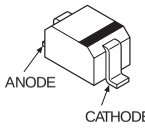
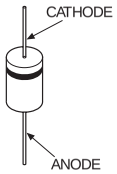


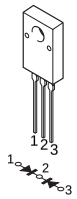
DTZ10B
DTZ13B
MA111-(K8).S0
MA111-TX
UDZ-TE-17-13B
UDZ-TE-17-3.9B
UDZS-TE17-10B
UDZS-TE17-5.1B
UDZS-TE17-5.6B
UDZS-TE17-9.1B
1SS357-TPH3



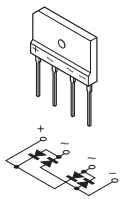
D1NL20U-TR
D1NL20U-TR2
D1NL40-TA
D1NL40-TA2
D2L40-TA
D2S6M
D2S6MTA1
ERA34-10TP1
ERB38-06V1
HSS82-TJ
HZS5B2-TE
NNCD5.6A-T1
P6KE200AG23
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
11DF2N-TA2B2



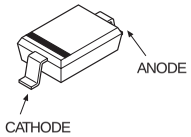
D10SC9M
D5SC4M-F



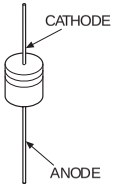
D4SB60L
D4SBL40
D4SBS4
D4SBS4-F



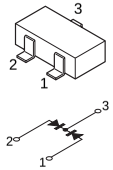
HSU83TRF



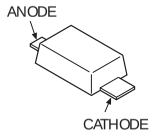
HZS182-TE
RB441Q-40T-77
RD15ES-B3
RD15ES-T1B3
RD18ESB
RD27ES-B2
RD27ES-T1B
RD5.1ES-T1B2
RD5.1ESB2
RD5.6ESB2
1SS119-25
1SS119-25TD



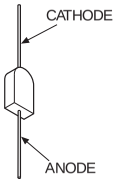
1PS184-115



MA8039



RM11A
RM11C



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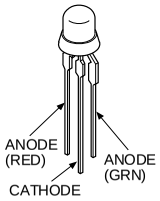
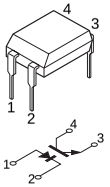
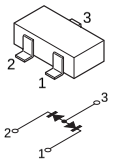


TLP421F(D4-SONY)



1PS181-115



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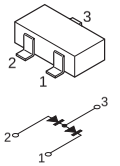

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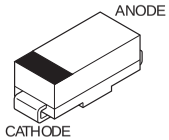
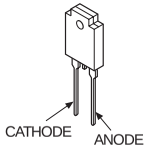


5VUZ52C(SONY)



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SECTION 5
EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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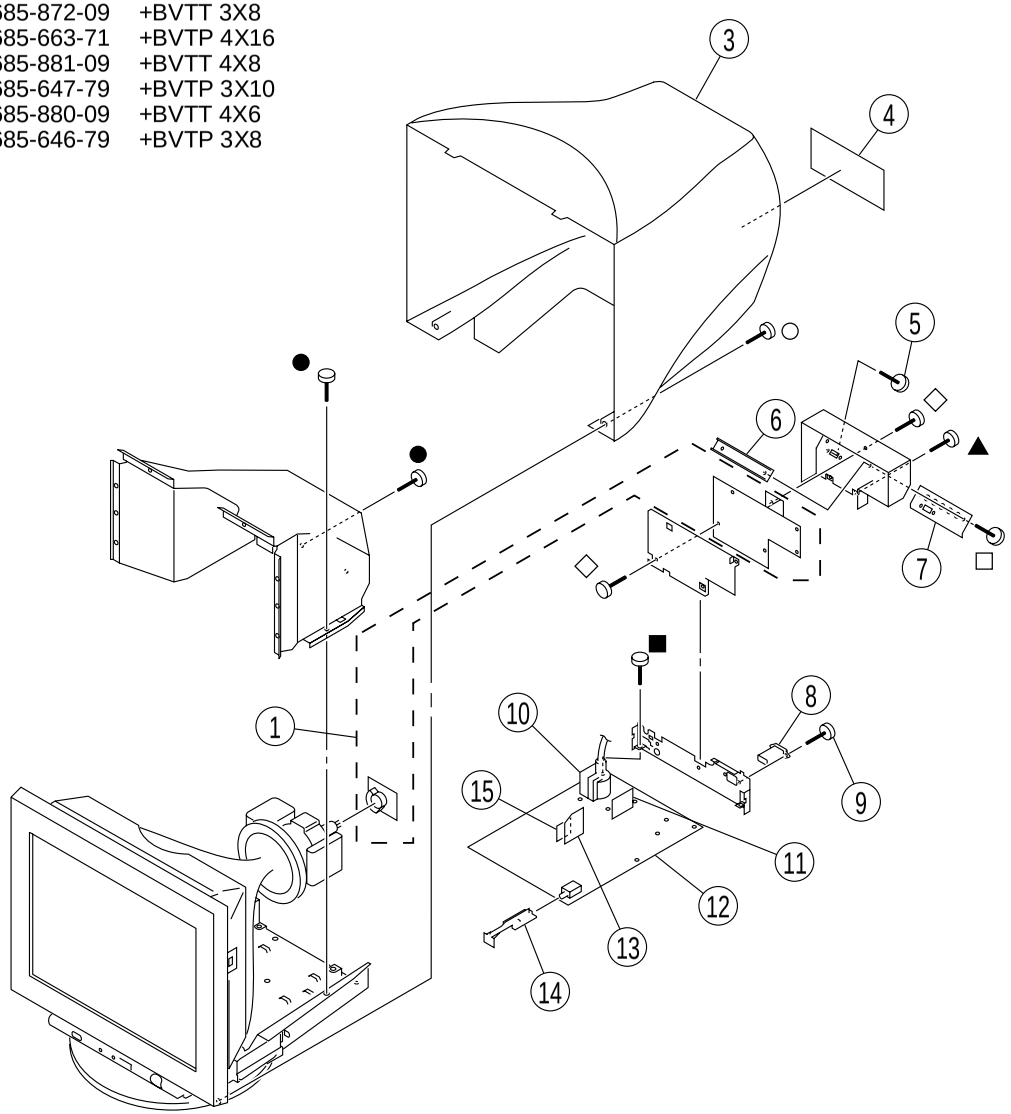
5-1. CHASSIS

□ 7-685-872-09 +BVTT 3X8
○ 7-685-663-71 +BVTP 4X16
● 7-685-881-09 +BVTT 4X8
■ 7-685-647-79 +BVTP 3X10
▲ 7-685-880-09 +BVTT 4X6
◇ 7-685-646-79 +BVTP 3X8



REF.NO.		PART NO.	DESCRIPTION	REMARK
1	*	8-933-473-00	A2 BOARD, COMPLETE	
3		X-4038-569-1	CABINET ASSY	
4	*	4-081-198-01	LABEL, INFORMATION [U/C]	
4	*	4-081-197-01	LABEL, INFORMATION [AEP]	
5	*	4-635-966-01	SCREW (HEX)	
6		1-694-763-11	TERMINAL BOARD ASSY, INPUT/OUT	
7		4-080-798-01	SEET, CONNECTOR	
8	⚠	1-251-382-31	INLET, AC (WITH NOISE FILTER)	
9		4-052-345-01	SCREW, (3X8) (+K), TAPPING	
10	⚠	1-453-359-11	TRANSFORMER ASSY, FLYBACK	(NX4702/KM7E)
11	*	8-933-479-00	N BOARD, COMPLETE	
12	*	8-933-475-00	D BOARD, COMPLETE	
13	*	8-933-481-00	L2 BOARD, COMPLETE	
14		4-079-799-01	BAR, EXTENSION	
15	*	8-933-476-00	DA BOARD, COMPLETE	

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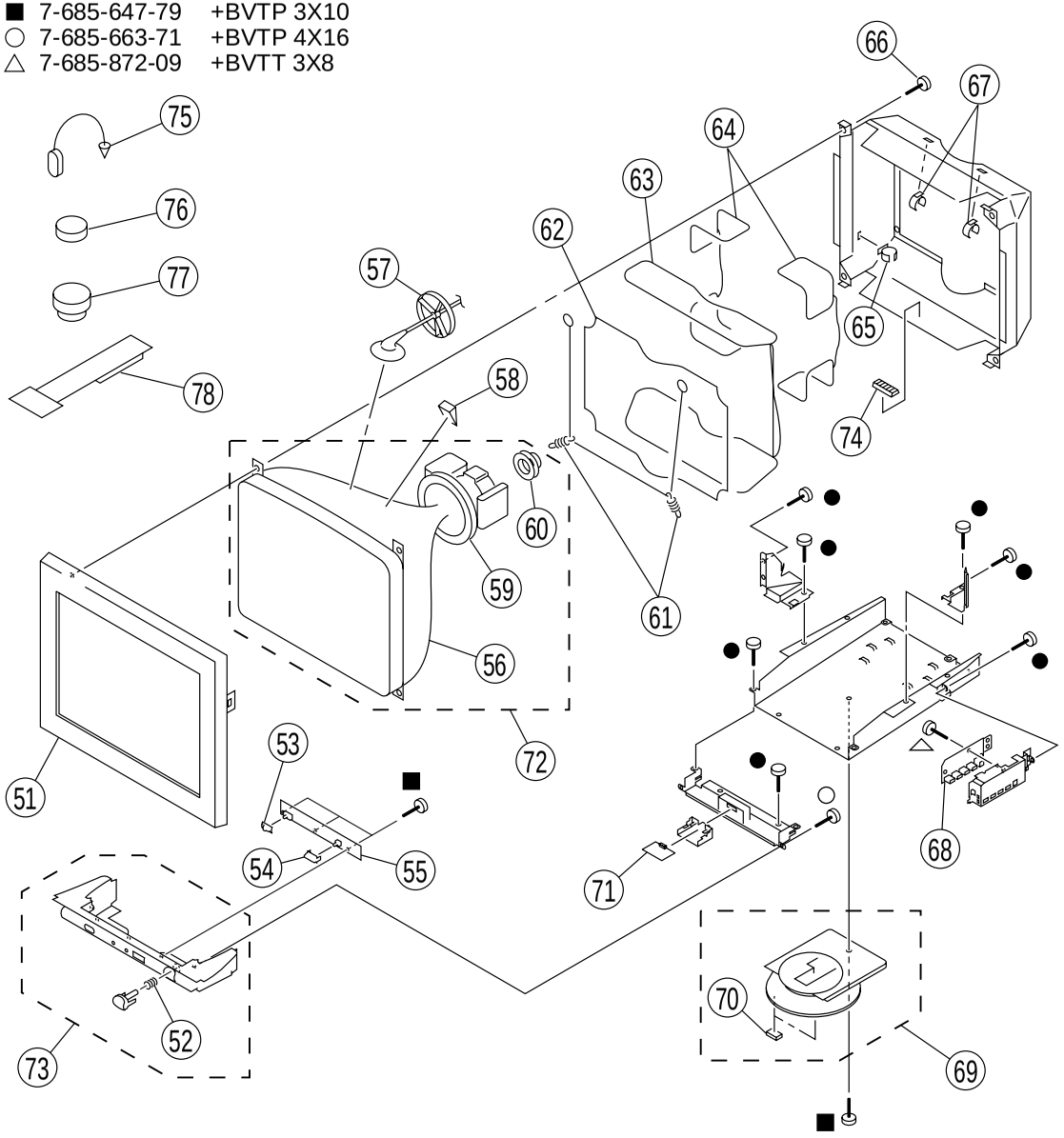
5-2. PICTURE TUBE

● 7-685-881-09 +BVTT 4X8
■ 7-685-647-79 +BVTP 3X10
○ 7-685-663-71 +BVTP 4X16
△ 7-685-872-09 +BVTT 3X8



REF.NO.		PART NO.	DESCRIPTION	REMARK
51		4-080-801-01	BEZEL	
52		4-042-593-01	SPRING, COMPRESSION	
53		4-080-800-01	SELECTOR, INPUT	
54		4-080-799-01	BUTTON, MENU	
55	*	8-933-478-00	H2 BOARD, COMPLETE	
56	⚠	8-738-840-05	PICTURE TUBE 21THD	
57		3-704-372-01	HOLDER, HV CABLE	
58		2-162-100-21	SPACER, DY	
59	⚠	8-451-519-21	DEFLECTION YOKE (Y21TKN-M2)	
60	⚠	1-452-912-71	NECK ASSEMBLY (NA-2914)	
61	*	4-047-316-01	SPRING, EXTENTION	
62		1-419-130-21	COIL, LANDING CORRECTION	
63	⚠	1-419-838-11	COIL DEGAUSSING	
64		1-419-129-21	COIL, LANDING CORRECTION	
65		4-071-175-01	HOLDER, DGC	
66		4-365-808-01	SCREW (5), TAPPING	
67		4-041-021-02	HOLDER, DEGAUSE COIL	
68	*	8-933-480-00	US BOARD, COMPLETE	
69		X-4038-567-1	BASE ASSY, STAND	70
70	*	4-061-996-01	CUSHION	
71		8-610-158-71	SENSOR, MAGNETIC MIU-221D	
72		8-734-020-06	ITC ASSY	56, 59, 60
73		X-4038-568-1	PANEL ASSY, CONTROL	52
74		4-062-670-01	SPACER, PICTURE TUBE	
75		4-308-870-00	CLIP, LEAD WIRE	
76		1-452-032-00	MAGNET, DISC; 10mm ϕ	
77		1-452-094-00	MAGNET, ROTATABLE DISC; 15mm ϕ	
78		4-051-736-21	PIECE A (90), CONV. CORRECT	

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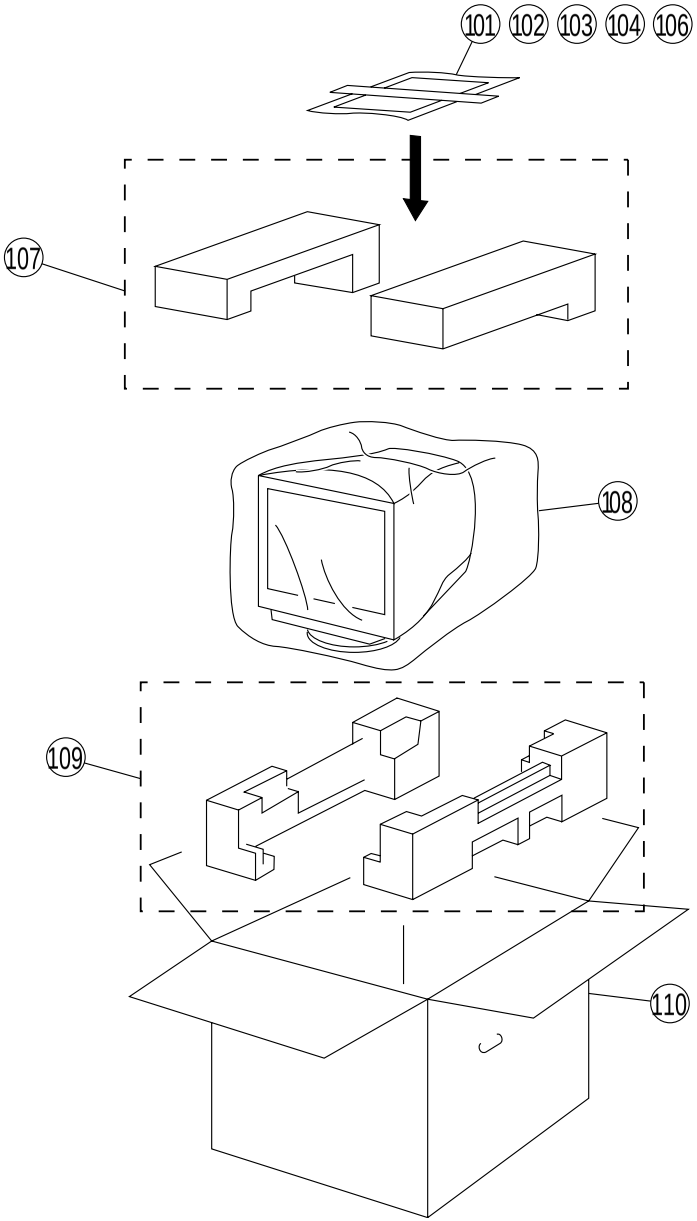
5-3. PACKING MATERIALS



REF.NO.		PART NO.	DESCRIPTION	REMARK
101	⚠	1-782-783-21	CORD SET, POWER [U/C]	
101	⚠	1-782-784-31	CORD SET, POWER [AEP]	
102		1-785-512-31	CONNECTOR, D SUB (15P CHANGER)	
103		1-790-081-21	CABLE, USB	
104		4-082-083-21	MANUAL, INSTRUCTION [U/C]	
104		4-082-083-11	MANUAL, INSTRUCTION [AEP]	
106		1-757-496-31	CABLE ASSY (15P SUB X2 CONNECTOR)	
107	*	4-078-755-01	CUSHION (UPPER) (ASSY) [U/C]	
107	*	4-079-037-01	CUSHION (UPPER) (ASSY) [AEP]	
108	*	4-030-594-11	BAG, PROTECTION	
109	*	4-078-756-01	CUSHION (LOWER) (ASSY) [U/C]	
109	*	4-079-038-01	CUSHION (LOWER) (ASSY) [AEP]	
110	*	4-078-754-01	INDIVIDUAL CARTON [U/C]	
110	*	4-082-000-01	INDIVIDUAL CARTON [AEP]	

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SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

RESISTORS
- All resistors are in ohms
- F : nonflammable

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		A2 BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (3X10), P, SW (+) (IC002)			
	<CAPACITOR>				
C001	1-162-318-11	CERAMIC	0.001µF	10%	500V
C004	1-109-982-11	CERAMIC (CHIP)	1µF	10%	10V
C007	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C009	1-104-664-11	ELECT	47µF	20%	10V
C010	1-107-649-11	ELECT	2.2µF	20%	250V
C011	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C012	1-115-340-11	CERAMIC (CHIP)	0.22µF	10%	25V
C013	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C014	1-128-560-11	ELECT	22µF	20%	100V
C015	1-115-871-11	ELECT	1µF	20%	50V
C016	1-128-528-11	ELECT	470µF	20%	16V
C017	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C018	1-107-888-11	ELECT	47µF	20%	25V
C020	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C021	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C023	1-104-664-11	ELECT	47µF	20%	10V
C025	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C026	1-163-227-11	CERAMIC (CHIP)	10pF	0.50PF	50V
C028	1-107-888-11	ELECT	47µF	20%	25V
C029	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C030	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C031	1-162-318-11	CERAMIC	0.001µF	10%	500V
C032	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C034	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C035	1-104-574-11	CERAMIC	0.0047µF	10%	2KV
C036	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C037	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C038	1-163-017-00	CERAMIC (CHIP)	0.0047µF	10%	50V
C039	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C040	1-104-664-11	ELECT	47µF	20%	10V
C044	1-162-318-11	CERAMIC	1000pF	10%	500V
C045	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C046	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C051	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C055	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C058	1-163-222-11	CERAMIC (CHIP)	5pF	0.25pF	50V
C059	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C060	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C061	1-163-259-91	CERAMIC (CHIP)	220pF	5%	50V
C062	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C064	1-104-665-11	ELECT	100µF	20%	10V
C065	1-107-882-91	ELECT	100µF	20%	16V
C068	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C069	1-126-513-11	ELECT	47µF	20%	6.3V
C070	1-164-004-11	CERAMIC (CHIP)	0.1µF	20%	50V
C090	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C091	1-115-871-11	ELECT	1µF	20%	50V
C092	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C100	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C101	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C102	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C103	1-163-257-11	CERAMIC (CHIP)	180pF	5%	50V
C104	1-163-227-11	CERAMIC (CHIP)	10pF	0.5pF	50V
C105	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C106	1-136-189-00	MYLAR	0.1µF	10%	250V
C108	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C109	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C110	1-163-275-11	CERAMIC (CHIP)	1000pF	5%	50V
C120	1-104-664-11	ELECT	47µF	20%	25V
C121	1-136-189-00	MYLAR	0.1µF	10%	250V
C130	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C151	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C152	1-104-664-11	ELECT	47µF	20%	25V
C200	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C201	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C202	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C203	1-163-257-11	CERAMIC (CHIP)	180pF	5%	50V
C204	1-163-227-11	CERAMIC (CHIP)	10pF	0.5pF	50V
C205	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C206	1-136-189-00	MYLAR	0.1µF	10%	250V
C208	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C209	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C210	1-163-275-11	CERAMIC (CHIP)	1000pF	5%	50V
C220	1-104-664-11	ELECT	47µF	20%	25V
C221	1-136-189-00	MYLAR	0.1µF	10%	250V
C230	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C251	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C252	1-104-664-11	ELECT	47µF	20%	25V
C300	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C301	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C302	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C303	1-163-257-11	CERAMIC (CHIP)	180pF	5%	50V
C304	1-163-227-11	CERAMIC (CHIP)	10pF	0.5pF	50V
C305	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C306	1-136-189-00	MYLAR	0.1µF	10%	250V
C308	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C309	1-163-233-11	CERAMIC (CHIP)	18pF	5%	50V
C310	1-163-275-11	CERAMIC (CHIP)	1000pF	5%	50V
C320	1-104-664-11	ELECT	47µF	20%	25V
C321	1-136-189-00	MYLAR	0.1µF	10%	250V
C330	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C351	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C352	1-104-664-11	ELECT	47µF	20%	25V
		<CONNECTOR>			
CN303	1-695-915-11	TAB (CONTACT)			
CN315 *	1-778-682-11	PIN, CONNECTOR (PC BOARD) 8P			
CN318	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P			
		<DIODE>			
D002	8-719-109-89	ZENER DIODE RD5.6ESB2			
D004	8-719-062-51	DIODE 1PS226-115			
D006	8-719-801-78	DIODE 1SS184			
D009	8-719-109-89	ZENER DIODE RD5.6ESB2			
D010	8-719-109-89	ZENER DIODE RD5.6ESB2			
D011	8-719-109-89	ZENER DIODE RD5.6ESB2			
D012	8-719-062-51	DIODE 1PS226-115			
D016	8-719-109-89	ZENER DIODE RD5.6ESB2			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D018	8-719-911-19	DIODE 1SS119-25	
D019	8-719-062-51	DIODE 1PS226-115	
D020	8-719-911-19	DIODE 1SS119-25	
D101	8-719-062-51	DIODE 1PS226-115	
D104	8-719-052-12	DIODE 1SS376TE-17	
D105	8-719-052-12	DIODE 1SS376TE-17	
D106	8-719-052-12	DIODE 1SS376TE-17	
D108	8-719-066-10	DIODE 1PS181-115	
D111	8-719-062-51	DIODE 1PS226-115	
D201	8-719-062-51	DIODE 1PS226-115	
D204	8-719-052-12	DIODE 1SS376TE-17	
D205	8-719-052-12	DIODE 1SS376TE-17	
D206	8-719-052-12	DIODE 1SS376TE-17	
D208	8-719-066-10	DIODE 1PS181-115	
D211	8-719-062-51	DIODE 1PS226-115	
D301	8-719-062-51	DIODE 1PS226-115	
D304	8-719-052-12	DIODE 1SS376TE-17	
D305	8-719-052-12	DIODE 1SS376TE-17	
D306	8-719-052-12	DIODE 1SS376TE-17	
D308	8-719-066-10	DIODE 1PS181-115	
D311	8-719-062-51	DIODE 1PS226-115	
	<FERRITE BEAD>		
FB001	1-412-911-11	FERRITE 1.1µH	
FB002	1-412-911-11	FERRITE 1.1µH	
FB003	1-412-911-11	FERRITE 1.1µH	
FB004	1-412-911-11	FERRITE 1.1µH	
FB005	1-412-911-11	FERRITE 1.1µH	
FB007	1-414-231-22	INDUCTOR	
FB008	1-216-295-11	SHORT 0	
FB009	1-414-231-22	INDUCTOR	
	<IC>		
IC001	8-759-680-73	IC M61312SP	
IC002	8-749-015-91	IC FA4301	
IC003	8-759-681-38	IC CXD9548M	
IC004	8-759-502-82	IC LM324M	
IC005	8-759-058-60	IC TC7SU04FU(TE85R)	
IC006	8-759-584-98	IC SN74AHCT04NSR	
IC007	8-759-697-54	IC BR24C21F-E2	
IC008	8-759-680-75	IC M61323SP	
IC011	8-759-592-79	IC BA00AST-V5	
	<JACK>		
J001	⚠ 1-451-524-11	SOCKET, PICTURE TUBE	
	<COIL>		
L001	1-412-537-31	INDUCTOR 100µH	
L002	1-414-940-21	INDUCTOR 100µH	
L003	1-412-537-31	INDUCTOR 100µH	
L004	1-412-529-11	INDUCTOR 22µH	
L005	1-412-537-31	INDUCTOR 100µH	
L006	1-412-537-31	INDUCTOR 100µH	
L007	1-414-940-21	INDUCTOR 100µH	
L101	1-412-478-11	INDUCTOR 0.15µH	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
L102	1-412-478-11	INDUCTOR	0.15µH		
L103	1-412-478-11	INDUCTOR	0.15µH		
L201	1-412-478-11	INDUCTOR	0.15µH		
L202	1-412-478-11	INDUCTOR	0.15µH		
L203	1-412-478-11	INDUCTOR	0.15µH		
L301	1-412-478-11	INDUCTOR	0.15µH		
L302	1-412-478-11	INDUCTOR	0.15µH		
L303	1-412-478-11	INDUCTOR	0.15µH		
	<TRANSISTOR>				
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q105	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q106	8-729-200-17	TRANSISTOR 2SA1091-0			
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q205	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q206	8-729-200-17	TRANSISTOR 2SA1091-0			
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q305	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q306	8-729-200-17	TRANSISTOR 2SA1091-0			
	<RESISTOR>				
R003	1-216-073-00	RES-CHIP	10K	5%	1/10W
R006	1-216-025-11	RES-CHIP	100	5%	1/10W
R007	1-216-025-11	RES-CHIP	100	5%	1/10W
R008	1-216-025-11	RES-CHIP	100	5%	1/10W
R010	1-216-025-11	RES-CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R011	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R012	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R013	1-216-025-11	RES-CHIP	100	5%	1/10W
R014	1-216-025-11	RES-CHIP	100	5%	1/10W
R015	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R016	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R017	1-216-041-00	RES-CHIP	470	5%	1/10W
R018	1-216-009-91	RES-CHIP	100	5%	1/10W
R019	1-216-025-11	RES-CHIP	100	5%	1/10W
R020	1-216-025-11	RES-CHIP	100	5%	1/10W
R021	1-216-025-11	RES-CHIP	100	5%	1/10W
R024	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R025	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R026	1-216-017-91	RES-CHIP	47	5%	1/10W
R029	1-216-017-91	RES-CHIP	47	5%	1/10W
R031	1-216-089-11	RES-CHIP	47K	5%	1/10W
R032	1-216-049-11	RES-CHIP	1K	5%	1/10W
R033	1-216-045-00	RES-CHIP	680	5%	1/10W
R034	1-216-041-00	RES-CHIP	470	5%	1/10W
R037	1-216-295-11	SHORT	0		
R038	1-216-017-91	RES-CHIP	47	5%	1/10W
R039	1-216-017-91	RES-CHIP	47	5%	1/10W
R040	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R041	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R044	1-216-295-11	SHORT	0		
R045	1-216-025-11	RES-CHIP	100	5%	1/10W
R046	1-216-077-91	RES-CHIP	15K	5%	1/10W
R048	1-216-017-91	RES-CHIP	47	5%	1/10W
R049	1-216-025-11	RES-CHIP	100	5%	1/10W
R052	1-259-884-11	CARBON	4.7M	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R054	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R055	1-216-073-00	RES-CHIP	10K	5%	1/10W
R058	1-216-025-11	RES-CHIP	100	5%	1/10W
R059	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R064	1-260-127-11	CARBON	220K	5%	1/2W
R077	1-216-077-91	RES-CHIP	15K	5%	1/10W
R078	1-216-668-11	METAL (CHIP)	5.1K	0.5%	1/10W
R079	1-216-663-11	METAL (CHIP)	3.3K	0.5%	1/10W
R080	1-216-661-11	METAL (CHIP)	2.7K	0.5%	1/10W
R082	1-216-369-00	METAL OXIDE	1	5%	2W
R092	1-216-077-91	RES-CHIP	15K	5%	1/10W
R095	1-216-295-11	SHORT	0		
R101	1-215-394-00	METAL	75	1%	1/4W
R103	1-216-097-11	RES-CHIP	100K	5%	1/10W
R104	1-216-295-11	SHORT	0		
R105	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R106	1-216-097-11	RES-CHIP	100K	5%	1/10W
R107	1-216-107-00	RES-CHIP	270K	5%	1/10W
R108	1-216-101-00	RES-CHIP	150K	5%	1/10W
R109	1-216-121-11	RES-CHIP	1M	5%	1/10W
R110	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R111	1-216-049-11	RES-CHIP	1K	5%	1/10W
R112	1-216-013-00	RES-CHIP	33	5%	1/10W
R114	1-216-009-91	RES-CHIP	22	5%	1/10W
R115	1-216-081-00	RES-CHIP	22K	5%	1/10W
R116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R117	1-216-017-91	RES-CHIP	47	5%	1/10W
R121	1-216-113-00	RES-CHIP	470K	5%	1/10W
R122	1-216-121-11	RES-CHIP	1M	5%	1/10W
R123	1-216-047-91	RES-CHIP	820	5%	1/10W
R125	1-216-091-00	RES-CHIP	56K	5%	1/10W
R129	1-216-121-11	RES-CHIP	1M	5%	1/10W
R130	1-216-013-00	RES-CHIP	33	5%	1/10W
R131	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R132	1-216-097-11	RES-CHIP	100K	5%	1/10W
R134	1-216-113-00	RES-CHIP	470K	5%	1/10W
R135	1-216-033-00	RES-CHIP	220	5%	1/10W
R136	1-216-113-00	RES-CHIP	470K	5%	1/10W
R137	1-260-324-11	CARBON	470	5%	1/4W
R138	1-216-017-91	RES-CHIP	47	5%	1/10W
R140	1-216-013-00	RES-CHIP	33	5%	1/10W
R141	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R148	1-216-017-91	RES-CHIP	47	5%	1/10W
R151	1-219-497-11	CARBON	22	5%	1/2W
R161	1-215-394-00	METAL	75	1%	1/4W
R163	1-216-017-91	RES-CHIP	47	5%	1/10W
R167	1-216-121-11	RES-CHIP	1M	5%	1/10W
R201	1-215-394-00	METAL	75	1%	1/4W
R203	1-216-097-11	RES-CHIP	100K	5%	1/10W
R204	1-216-295-11	SHORT	0		
R205	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R206	1-216-097-11	RES-CHIP	100K	5%	1/10W
R207	1-216-107-00	RES-CHIP	270K	5%	1/10W
R208	1-216-101-00	RES-CHIP	150K	5%	1/10W
R209	1-216-121-11	RES-CHIP	1M	5%	1/10W
R210	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R211	1-216-049-11	RES-CHIP	1K	5%	1/10W
R212	1-216-013-00	RES-CHIP	33	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R214	1-216-009-91	RES-CHIP	22	5%	1/10W
R215	1-216-081-00	RES-CHIP	22K	5%	1/10W
R216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R217	1-216-017-91	RES-CHIP	47	5%	1/10W
R221	1-216-113-00	RES-CHIP	470K	5%	1/10W
R222	1-216-121-11	RES-CHIP	1M	5%	1/10W
R223	1-216-047-91	RES-CHIP	820	5%	1/10W
R225	1-216-091-00	RES-CHIP	56K	5%	1/10W
R229	1-216-121-00	RES-CHIP	1M	5%	1/10W
R230	1-216-013-00	RES-CHIP	33	5%	1/10W
R231	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R232	1-216-097-11	RES-CHIP	100K	5%	1/10W
R234	1-216-113-00	RES-CHIP	470K	5%	1/10W
R235	1-216-033-00	RES-CHIP	220	5%	1/10W
R236	1-216-113-00	RES-CHIP	470K	5%	1/10W
R237	1-260-324-11	CARBON	470	5%	1/4W
R238	1-216-017-91	RES-CHIP	47	5%	1/10W
R240	1-216-013-00	RES-CHIP	33	5%	1/10W
R241	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R248	1-216-017-91	RES-CHIP	47	5%	1/10W
R251	1-219-497-11	CARBON	22	5%	1/2W
R261	1-215-394-00	METAL	75	1%	1/4W
R263	1-216-017-91	RES-CHIP	47	5%	1/10W
R267	1-216-121-00	RES-CHIP	1M	5%	1/10W
R301	1-215-394-00	METAL	75	1%	1/4W
R303	1-216-097-11	RES-CHIP	100K	5%	1/10W
R304	1-216-295-11	SHORT	0		
R305	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R306	1-216-097-11	RES-CHIP	100K	5%	1/10W
R307	1-216-107-00	RES-CHIP	270K	5%	1/10W
R308	1-216-101-00	RES-CHIP	150K	5%	1/10W
R309	1-216-121-11	RES-CHIP	1M	5%	1/10W
R310	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R311	1-216-049-11	CARBON	56	5%	1/4W
R312	1-216-013-00	RES-CHIP	33	5%	1/10W
R314	1-216-009-91	RES-CHIP	22	5%	1/10W
R315	1-216-081-00	RES-CHIP	22K	5%	1/10W
R316	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R317	1-216-017-91	RES-CHIP	47	5%	1/10W
R321	1-216-113-00	RES-CHIP	470K	5%	1/10W
R322	1-216-121-11	RES-CHIP	1M	5%	1/10W
R323	1-216-047-91	RES-CHIP	820	5%	1/10W
R325	1-216-091-00	RES-CHIP	56K	5%	1/10W
R329	1-216-121-11	RES-CHIP	1M	5%	1/10W
R330	1-216-013-00	RES-CHIP	33	5%	1/10W
R331	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R332	1-216-097-11	RES-CHIP	100K	5%	1/10W
R334	1-216-113-00	RES-CHIP	470K	5%	1/10W
R335	1-216-033-00	RES-CHIP	220	5%	1/10W
R336	1-216-113-00	RES-CHIP	470K	5%	1/10W
R337	1-260-324-11	CARBON	470	5%	1/4W
R338	1-216-017-91	RES-CHIP	47	5%	1/10W
R340	1-216-013-00	RES-CHIP	33	5%	1/10W
R341	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R348	1-216-017-91	RES-CHIP	47	5%	1/10W
R351	1-219-497-11	CARBON	22	5%	1/2W
R361	1-215-394-00	METAL	75	1%	1/4W
R363	1-216-017-91	RES-CHIP	47	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R367	1-216-121-11	RES-CHIP	1M	5%	1/10W
	<SPARK GAP>				
SG001	1-519-422-11	SPARK GAP			
SG002	1-576-354-21	SPARK GAP			
SG101	1-576-354-21	SPARK GAP			
SG201	1-576-354-21	SPARK GAP			
SG301	1-576-354-21	SPARK GAP			
	<CRYSTAL>				
X001	1-760-682-21	VIBRATOR, CRYSTAL (24.5 MHz)			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		D BOARD, COMPLETE			
		**********			
	3-710-578-01	COVER, VOLUME, 6 MOLD (RV901)			
	4-382-854-01	SCREW (3X8), P, SW (+) (D610, IC654, Q640, Q641, R510)			
	4-382-854-11	SCREW (3X10), P, SW (+) (D504, D652, D680, IC401, IC703, Q505, Q506, Q511, Q512, Q513, Q514, Q630, Q704, Q705, Q901, Q902, R909)			
	* 7-322-065-48	RUBBER, SILICONE RTV (KE-3490) (RV901)			
	7-682-950-01	+PSW 3X12 (IC610)			
		<CAPACITOR>			
C401	1-128-528-11	ELECT	470µF	20%	25V
C402	1-137-401-11	MYLAR	0.22µF	10%	100V
C403	1-107-911-11	ELECT	220µF	20%	50V
C404	1-128-528-11	ELECT	470µF	20%	25V
C405	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C406	1-137-366-11	MYLAR	0.0022µF	5%	50V
C407	1-164-161-11	CERAMIC (CHIP)	0.0022µF	10%	50V
C408	1-163-222-11	CERAMIC (CHIP)	5pF	0.25pF	50V
C500	1-163-259-91	CERAMIC (CHIP)	220pF	5%	50V
C502	1-137-150-11	MYLAR	0.01µF	5%	50V
C503	1-130-495-00	MYLAR	0.1µF	5%	50V
C504	1-137-368-11	MYLAR	0.0047µF	5%	50V
C505	1-126-949-11	ELECT	220µF	20%	35V
C506	1-127-810-51	ELECT (MELF)	22µF	20%	250V
C507	1-136-207-11	MYLAR	0.047µF	5%	400V
C508	1-137-714-11	FILM	3000pF	3%	1.8KV
C509	1-107-444-11	CERAMIC	100pF	5%	2KV
C510	1-136-684-51	MYLAR	0.0022µF	10%	100V
C511	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C512	1-163-005-11	CERAMIC (CHIP)	470pF	10%	50V
C513	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C514	1-137-368-11	MYLAR	0.0047µF	5%	50V
C515	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C516	1-126-934-11	ELECT	220µF	20%	16V
C517	1-163-133-00	CERAMIC (CHIP)	470pF	5%	50V
C519	1-164-161-11	CERAMIC (CHIP)	2200pF	10%	50V
C520	1-163-037-11	CERAMIC (CHIP)	0.022µF	10%	50V
C521	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C522	1-126-965-11	ELECT	22µF	20%	50V
C524	1-126-941-11	ELECT	470µF	20%	25V
C525	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C526	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C527	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C528	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C533	1-163-017-00	CERAMIC (CHIP)	0.0047µF	10%	50V
C535	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C536	1-107-665-11	ELECT	0.47µF	20%	400V
C537	1-137-882-11	FILM	0.11µF	5%	400V
C538	1-107-649-11	ELECT	2.2µF	20%	250V
C539	1-115-356-11	FILM	1.2µF	5%	250V
C540	1-126-960-11	ELECT	1µF	20%	50V
C541	1-115-521-11	FILM	0.82µF	5%	250V
C542	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C543	1-117-666-11	FILM	0.39µF	5%	250V
C544	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C545	1-117-663-11	FILM	0.22µF	5%	250V
C546	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C547	1-107-846-11	FILM	0.1µF	5%	250V
C548	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C549	1-136-060-00	FILM	0.047µF	5%	400V
C550	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C554	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C559	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C560	1-137-856-11	FILM	0.018µF	5%	400V
C561	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C562	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C563	1-104-572-11	CERAMIC	0.0022µF	10%	2KV
C564	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C565	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C601 ⚠	1-107-533-51	MYLAR	1µF	20%	250V
C602 ⚠	1-104-708-51	MYLAR	0.47µF	20%	250V
C603 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C604 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C605 ⚠	1-113-926-91	CERAMIC	0.0047µF		250V
C606 ⚠	1-113-926-91	CERAMIC	0.0047µF		250V
C607	1-119-913-51	CERAMIC	2200pF	20%	250V
C610	1-137-673-11	ELECT	330µF	20%	450V
C611	1-117-227-11	MYLAR	1µF	10%	450V
C612	1-136-169-00	FILM	0.22µF	5%	50V
C613	1-126-967-11	ELECT	47µF	20%	50V
C614	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C629	1-163-017-00	CERAMIC (CHIP)	0.0047µF	10%	50V
C630	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C631	1-104-665-11	ELECT	100µF	20%	25V
C632	1-126-961-11	ELECT	2.2µF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C635	1-163-005-11	CERAMIC (CHIP)	470pF	10%	50V
C636	1-164-161-11	CERAMIC (CHIP)	0.0022µF	10%	50V
C640	1-126-964-11	ELECT	10µF	20%	50V
C641	1-107-792-11	CERAMIC	100pF	5%	1KV
C642	1-136-189-00	MYLAR	0.1µF	10%	250V
C643	1-107-792-11	CERAMIC	100pF	5%	1KV
C644	1-136-165-00	FILM	0.1µF	5%	50V
C645	1-136-479-11	FILM	0.001µF	2%	50V
C646	1-126-961-11	ELECT	2.2µF	20%	50V
C647	1-126-963-11	ELECT	4.7µF	20%	50V
C648	1-126-967-11	ELECT	47µF	20%	50V
C649	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C650	1-107-656-11	ELECT	100µF	20%	250V
C652	1-128-563-11	ELECT	100µF	20%	100V
C654	1-126-943-11	ELECT	2200µF	20%	25V
C655	1-104-664-11	ELECT	47µF	20%	25V
C656	1-126-943-11	ELECT	2200µF	20%	25V
C657	1-104-664-11	ELECT	47µF	20%	25V
C658	1-137-725-21	FILM	8200pF	3%	800V
C667	1-107-909-11	ELECT	47µF	20%	16V
C680	1-115-747-51	ELECT	0.0068F	20%	10V
C681	1-107-889-11	ELECT	220µF	20%	10V
C682	1-137-368-11	MYLAR	0.0047µF	5%	50V
C683	1-115-706-11	ELECT	220µF	20%	6.3V
C686	1-115-706-11	ELECT	220µF	20%	6.3V
C687	1-130-495-00	MYLAR	0.1µF	5%	50V
C692	1-115-706-11	ELECT	220µF	20%	6.3V
C701	1-163-003-11	CERAMIC (CHIP)	330pF	10%	50V
C703	1-163-003-11	CERAMIC (CHIP)	330pF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C704	1-137-150-11	MYLAR	0.01µF	5%	50V
C705	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C706	1-137-150-11	MYLAR	0.01µF	5%	50V
C707	1-104-666-11	ELECT	220µF	20%	25V
C708	1-104-666-11	ELECT	220µF	20%	25V
C711	1-163-239-11	CERAMIC (CHIP)	33pF	5%	50V
C712	1-163-239-11	CERAMIC (CHIP)	33pF	5%	50V
C713	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C714	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C718	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C719	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C720	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C721	1-128-562-11	ELECT	47µF	20%	100V
C723	1-128-560-11	ELECT	22µF	20%	100V
C724	1-162-134-11	CERAMIC	470pF	10%	2KV
C726	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C727	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C730	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C732	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C733	1-117-722-11	ELECT	2200µF	20%	10V
C734	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C736	1-126-967-11	ELECT	47µF	20%	50V
C737	1-126-967-11	ELECT	47µF	20%	50V
C738	1-136-169-00	FILM	0.22µF	5%	50V
C761	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C900	1-107-713-11	ELECT	4.7µF	20%	50V
C901	1-104-665-11	ELECT	100µF	20%	25V
C902	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C903	1-126-962-11	ELECT	3.3µF	20%	50V
C904	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C905	1-163-133-00	CERAMIC (CHIP)	470pF	5%	50V
C906	1-163-251-11	CERAMIC (CHIP)	100pF	5%	50V
C908	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C909	1-104-665-11	ELECT	100µF	20%	25V
C910	1-163-259-91	CERAMIC (CHIP)	220pF	5%	50V
C911	1-163-137-00	CERAMIC (CHIP)	680pF	5%	50V
C913	1-135-842-51	ELECT	47µF	20%	250V
C915	1-137-867-11	FILM	470pF	5%	250V
C916	1-117-665-11	FILM	0.33µF	5%	250V
C917	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C918	1-117-626-11	FILM	2000pF	3%	1.2KV
C919	1-115-349-51	CERAMIC	0.01µF		2KV
C920	1-115-349-51	CERAMIC	0.01µF		2KV
C921	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C923	1-126-959-11	ELECT	0.47µF	20%	50V
C925	1-137-372-11	MYLAR	0.022µF	5%	50V
C926	1-106-220-00	MYLAR	0.1µF	10%	100V
C927	1-102-228-00	CERAMIC	470pF	10%	500V
C929	1-126-963-11	ELECT	4.7µF	20%	50V
C930	1-136-169-00	FILM	0.22µF	5%	50V
C932	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C933	1-104-664-11	ELECT	47µF	20%	25V
C935	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C936	1-163-009-11	CERAMIC (CHIP)	0.001µF	10%	50V
C937	1-128-551-11	ELECT	22µF	20%	25V
C938	1-126-935-11	ELECT	470µF	20%	16V
C939	1-136-205-11	MYLAR	0.022µF	10%	400V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	<CONNECTOR>		
CN501	* 1-793-239-11	PIN, CONNECTOR (PC BOARD) 6P	
CN601	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN602	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN604	1-770-724-11	CONNECTOR, BOARD TO BOARD 9P	
CN605	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN701	* 1-764-333-11	PLUG, CONNECTOR 10P	
CN904	1-695-915-11	TAB (CONTACT)	
CN1101	* 1-508-879-11	BASE POST	
CN1102	1-774-628-11	CONNECTOR, BOARD TO BOARD 17P	
CN1103	* 1-564-511-11	PLUG, CONNECTOR 8P	
	<DIODE>		
D401	8-719-018-84	DIODE D2S6M	
D405	8-719-109-85	ZENER DIODE RD5.1ESB2	
D406	8-719-050-84	DIODE RB441Q-40T-77	
D501	8-719-110-47	ZENER DIODE RD18ESB	
D502	8-719-054-71	DIODE D5SC4M-F	
D503	8-719-110-47	ZENER DIODE RD18ESB	
D504	8-719-081-76	DIODE 5VUZ52 (SONY)	
D505	8-719-052-86	DIODE D2L40-TA	
D506	8-719-062-89	ZENER DIODE HZS5B2-TE	
D509	8-719-073-01	DIODE MA111-(K8).S0	
D510	8-719-082-50	DIODE 11DF2N-TA2B2	
D512	8-719-911-19	DIODE 1SS119-25	
D516	8-719-052-90	DIODE D1NL40-TA	
D517	8-719-082-50	DIODE 11DF2N-TA2B2	
D518	8-719-050-84	DIODE RB441Q-40T-77	
D519	8-719-069-54	ZENER DIODE UDZS-TE17-5.1B	
D520	8-719-911-19	DIODE 1SS119-25	
D521	8-719-911-19	DIODE 1SS119-25	
D610	⚠ 8-719-510-53	DIODE D4SB60L	
D613	8-719-304-63	DIODE RM11C	
D631	8-719-063-73	DIODE D1NL20U-TR	
D632	8-719-059-23	DIODE P6KE200AG23	
D633	8-719-069-63	DIODE ERB38-06V1	
D634	8-719-063-73	DIODE D1NL20U-TR	
D635	8-719-110-67	ZENER DIODE RD27ES-B2	
D641	8-719-069-63	DIODE ERB38-06V1	
D643	8-719-073-01	DIODE MA111-(K8).S0	
D644	8-719-073-01	DIODE MA111-(K8).S0	
D650	8-719-064-49	DIODE D4SBL40	
D651	8-719-063-74	DIODE D1NL20U-TR2	
D652	8-719-052-91	DIODE D4SBS4-F	
D680	8-719-510-41	DIODE D10SC9M	
D690	8-719-911-19	DIODE 1SS119-25	
D692	8-719-911-19	DIODE 1SS119-25	
D694	8-719-911-19	DIODE 1SS119-25	
D697	8-719-073-01	DIODE MA111-(K8).S0	
D701	8-719-911-19	DIODE 1SS119-25	
D702	8-719-911-19	DIODE 1SS119-25	
D703	8-719-911-19	DIODE 1SS119-25	
D705	8-719-073-01	DIODE MA111-(K8).S0	
D706	8-719-069-54	ZENER DIODE UDZS-TE17-5.1B	
D901	8-719-073-01	DIODE MA111-(K8).S0	
D906	8-719-977-40	ZENER DIODE DTZ13B	
D907	8-719-052-86	DIODE D2L40-TA	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D909	8-719-110-47	ZENER DIODE RD18ESB	
D910	8-719-028-72	DIODE RGP02-17EL-6433	
D911	8-719-018-82	DIODE RGP02-20EL-6394	
D912	8-719-110-42	ZENER DIODE RD15ES-B3	
D914	8-719-970-83	DIODE HSS82-TJ	
D917	8-719-069-60	ZENER DIODE UDZS-TE17-9.1B	
D918	8-719-073-01	DIODE MA111-(K8).S0	
D919	8-719-069-54	ZENER DIODE UDZS-TE17-5.1B	
D920	8-719-977-28	ZENER DIODE DTZ10B	
D921	8-719-911-19	DIODE 1SS119-25	
D922	8-719-073-01	DIODE MA111-(K8).S0	
D923	8-719-073-01	DIODE MA111-(K8).S0	
	<FUSE>		
F601 ⚠	1-576-233-11	H.B.C. FUSE (6.3A/250V)	
	<FERRITE BEAD>		
FB501	1-410-397-21	FERRITE 1.1µH	
FB555	1-216-295-11	SHORT 0	
FB901	1-412-911-11	FERRITE 1.1µH	
FB902	1-414-231-22	INDUCTOR	
FB1000	1-414-231-22	INDUCTOR	
FB1002	1-216-295-11	SHORT 0	
FB1005	1-216-295-11	SHORT 0	
FB1007	1-216-295-11	SHORT 0	

REF.NO.	PART NO.	DESCRIPTION	REMARK
	<FUSE HOLDER>		
FH601	1-533-223-11	HOLDER, FUSE (F601)	
FH602	1-533-223-11	HOLDER, FUSE (F601)	
	<IC>		
IC401	8-759-192-71	IC STV9379	
IC501	8-759-585-82	IC BA9759F-E2	
IC610	8-749-018-08	IC MZ1532	
IC620	8-759-670-30	IC MCZ3001D	
IC630	8-759-535-32	IC FA13842P	
IC640	8-749-018-07	IC SEB3-LF4	
IC652	8-759-669-10	IC BA3953T-V5	
IC654	8-759-701-79	IC NJM7812FA	
IC680	8-759-682-42	IC MM1431ATT	
IC701	8-759-822-38	IC LA6510	
IC702	8-749-017-48	IC STK391-220	
IC703	8-759-803-42	IC LA6500-FA	
IC901	8-759-585-81	IC BA9758FS-E2	
IC902	8-759-701-01	IC NJM2904M	
	<CHIP CONDUCTOR>		
JR001	1-216-295-11	SHORT 0	
JR002	1-216-296-11	SHORT 0	
JR003	1-216-296-11	SHORT 0	
JR004	1-216-296-11	SHORT 0	
JR006	1-216-296-11	SHORT 0	
JR007	1-216-295-11	SHORT 0	

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REF.NO.	PART NO.	DESCRIPTION		REMARK
JR008	1-216-296-11	SHORT	0	
JR009	1-216-295-11	SHORT	0	
JR012	1-216-296-11	SHORT	0	
JR013	1-216-295-11	SHORT	0	
JR014	1-216-296-11	SHORT	0	
JR015	1-216-295-11	SHORT	0	
JR016	1-216-296-11	SHORT	0	
JR017	1-216-295-11	SHORT	0	
JR018	1-216-295-11	SHORT	0	
JR019	1-216-296-11	SHORT	0	
JR022	1-216-296-11	SHORT	0	
	<COIL>			
L501	1-412-537-31	INDUCTOR	100µH	
L502	1-419-871-11	COIL, HORIZONTAL LINEARITY		
L504	1-406-675-11	INDUCTOR	4.7mH	
L505	1-406-675-11	INDUCTOR	4.7mH	
L506	1-406-673-11	INDUCTOR	2.2mH	
L508	1-412-525-31	INDUCTOR	10µH	
L509	1-419-869-11	COIL, HORIZONTAL CENTERING		
L510	1-411-594-41	INDUCTOR	5mH	
L610	1-419-836-11	INDUCTOR	216µH	
L611	1-419-397-11	INDUCTOR	68µH	
L612	1-412-521-31	INDUCTOR	4.7µH	
L652	1-406-665-11	INDUCTOR	100µH	
L653	1-406-665-11	INDUCTOR	100µH	
L680	1-414-742-21	INDUCTOR	22µH	
L902	1-406-661-21	INDUCTOR	22µH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1001	1-412-911-31	FERRITE 1.1µH	
	<PHOTO COUPLER>		
PH610	8-749-018-06	IC TLP421F(D4-SONY)	
PH620	8-749-018-06	IC TLP421F(D4-SONY)	
PH630	8-749-018-06	IC TLP421F(D4-SONY)	
	<TRANSISTOR>		
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-049-86	TRANSISTOR 2PD602AR-115	
Q503	8-729-049-85	TRANSISTOR 2PB710AR-115	
Q504	8-729-043-53	TRANSISTOR IRFU110	
Q505	8-729-053-31	TRANSISTOR 2SC5570(LBSONY2)	
Q506	8-729-053-98	TRANSISTOR 2SJ569LS-CC11	
Q507	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q508	8-729-049-86	TRANSISTOR 2PD602AR-115	
Q509	8-729-049-85	TRANSISTOR 2PB710AR-115	
Q510	8-729-140-96	TRANSISTOR 2SD774-34	
Q511	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q512	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q513	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q514	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q515	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q516	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q517	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q518	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q519	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q521	8-729-901-00	TRANSISTOR DTC124EK	
Q523	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q524	8-729-901-00	TRANSISTOR DTC124EK	
Q525	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q526	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q527	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q528	8-729-901-00	TRANSISTOR DTC124EK	
Q529	8-729-901-00	TRANSISTOR DTC124EK	
Q530	8-729-901-00	TRANSISTOR DTC124EK	
Q610	8-729-029-55	TRANSISTOR DTA143ZSA-TP	
Q611	8-729-029-96	TRANSISTOR DTC143XSA	
Q630	8-729-045-03	TRANSISTOR 2SK2647-01MR-F91	
Q640	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q641	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q652	8-729-029-66	TRANSISTOR DTC114ESA	
Q701	8-729-800-32	TRANSISTOR 2SC2362K-G	
Q702	8-729-025-68	TRANSISTOR 2SC2362KF-AA	
Q703	8-729-820-50	TRANSISTOR 2SA1016KFG-AA	
Q704	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q705	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q706	8-729-045-47	TRANSISTOR 2SC4620TV2Q	
Q707	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q901	8-729-048-53	TRANSISTOR 2SJ569LS-CB11	
Q902	8-729-053-42	TRANSISTOR FS5KM-18A-AT	
Q903	8-729-049-86	TRANSISTOR 2PD602AR-115	
Q904	8-729-049-85	TRANSISTOR 2PB710AR-115	
Q905	8-729-046-80	TRANSISTOR 2SC4634LS-CB11	
Q906	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q907	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
R401	1-249-383-11	CARBON	1.5	5%	1/4W
R402	1-215-867-00	METAL OXIDE	470	5%	1W
R403	1-214-796-00	METAL	1.5	1%	1/2W
R404	1-215-449-00	METAL	15K	1%	1/4W
R405	1-214-796-00	METAL	1.5	1%	1/2W
R406	1-215-451-00	METAL	18K	1%	1/4W
R407	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R408	1-216-097-11	RES-CHIP	100K	5%	1/10W
R409	1-216-679-11	METAL (CHIP)	15K	0.5%	1/10W
R410	1-216-681-11	METAL (CHIP)	18K	0.5%	1/10W
R501	1-216-049-11	RES-CHIP	1K	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W
R503	1-216-033-00	RES-CHIP	220	5%	1/10W
R504	1-216-073-00	RES-CHIP	10K	5%	1/10W
R505	1-216-081-00	RES-CHIP	22K	5%	1/10W
R506	1-249-393-11	CARBON	10	5%	1/4W
R507	1-249-433-11	CARBON	22K	5%	1/4W
R508	1-215-861-00	METAL OXIDE	47	5%	1W
R509	1-249-381-11	CARBON	1	5%	1/4W
R510	1-219-726-11	METAL	2.2	5%	10W
R511	1-216-683-11	METAL (CHIP)	22K	0.5%	1/10W
R512	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R513	1-216-423-11	METAL OXIDE	27	5%	1W
R514	1-249-397-11	CARBON	22	5%	1/4W
R515	1-249-425-11	CARBON	4.7K	5%	1/4W
R516	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R517	1-216-089-11	RES-CHIP	47K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R518	1-216-033-00	RES-CHIP	220	5%	1/10W
R519	1-216-037-00	RES-CHIP	330	5%	1/10W
R520	1-216-033-00	RES-CHIP	220	5%	1/10W
R521	1-247-807-31	CARBON	100	5%	1/4W
R522	1-216-049-11	RES-CHIP	1K	5%	1/10W
R523	1-216-685-11	METAL (CHIP)	27K	0.5%	1/10W
R524	1-216-663-11	METAL (CHIP)	3.3K	0.5%	1/10W
R525	1-216-657-11	METAL (CHIP)	1.8K	0.5%	1/10W
R526	1-216-689-11	METAL (CHIP)	39K	0.5%	1/10W
R527	1-216-685-11	METAL (CHIP)	27K	0.5%	1/10W
R528	1-215-453-00	METAL	22K	1%	1/4W
R530	1-216-662-11	METAL (CHIP)	3K	0.5%	1/10W
R531	1-216-661-11	METAL (CHIP)	2.7K	0.5%	1/10W
R532	1-216-081-00	RES-CHIP	22K	5%	1/10W
R533	1-216-681-11	METAL (CHIP)	18K	0.5%	1/10W
R534	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R536	1-215-863-11	METAL OXIDE	100	5%	1W
R537	1-216-663-11	METAL (CHIP)	3.3K	0.5%	1/10W
R539	1-216-073-00	RES-CHIP	10K	5%	1/10W
R541	1-216-089-11	RES-CHIP	47K	5%	1/10W
R542	1-214-842-11	METAL	120	1%	1/2W
R543	1-216-081-00	RES-CHIP	22K	5%	1/10W
R544	1-216-041-00	RES-CHIP	470	5%	1/10W
R546	1-215-890-11	METAL OXIDE	470	5%	2W
R547	1-215-373-31	METAL	10	1%	1/4W
R548	1-260-316-51	CARBON	100	5%	1/2W
R549	1-260-312-11	CARBON	47	5%	1/2W
R550	1-247-903-00	CARBON	1M	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-249-437-11	CARBON	47K	5%	1/4W
R557	1-249-437-11	CARBON	47K	5%	1/4W
R559	1-249-437-11	CARBON	47K	5%	1/4W
R561	1-249-437-11	CARBON	47K	5%	1/4W
R563	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R566	1-216-025-11	RES-CHIP	100	5%	1/10W
R567	1-216-025-11	RES-CHIP	100	5%	1/10W
R568	1-216-025-11	RES-CHIP	100	5%	1/10W
R570	1-214-842-11	METAL	120	1%	1/2W
R571	1-214-842-11	METAL	120	1%	1/2W
R572	1-216-025-11	RES-CHIP	100	5%	1/10W
R573	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R574	1-216-049-11	RES-CHIP	1K	5%	1/10W
R575	1-216-041-00	RES-CHIP	470	5%	1/10W
R576	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R578	1-216-049-11	RES-CHIP	1K	5%	1/10W
R579	1-216-049-11	RES-CHIP	1K	5%	1/10W
R580	1-249-413-11	CARBON	470	5%	1/4W
R581	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-216-025-11	RES-CHIP	100	5%	1/10W
R584	1-215-909-11	METAL OXIDE	47	5%	3W
R585	1-216-381-11	METAL OXIDE	0.22	5%	3W
R586	1-215-909-11	METAL OXIDE	47	5%	3W
R588	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R589	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R590	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R591	1-249-425-11	CARBON	4.7K	5%	1/4W
R592	1-249-425-11	CARBON	4.7K	5%	1/4W
R593	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R594	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R596	1-247-807-31	CARBON	100	5%	1/4W
R598	1-216-663-11	METAL (CHIP)	3.3K	0.5%	1/10W
R599	1-218-756-11	METAL (CHIP)	150K	0.5%	1/10W
R601 ⚠	1-220-825-91	CARBON	330K	5%	1/2W
R610	1-217-152-00	METAL	0.33	10%	2W
R611	1-217-153-00	METAL	0.47	10%	2W
R612	1-247-807-31	CARBON	100	5%	1/4W
R614	1-247-807-31	CARBON	100	5%	1/4W
R615	1-249-427-11	CARBON	6.8K	5%	1/4W
R617	1-216-073-00	RES-CHIP	10K	5%	1/10W
R618	1-216-049-11	RES-CHIP	1K	5%	1/10W
R620	1-202-933-61	FUSE	0.1	10%	1/2W
R629	1-216-671-11	METAL (CHIP)	6.8K	0.5%	1/10W
R630	1-249-381-11	CARBON	1	5%	1/4W
R631	1-216-369-00	METAL OXIDE	1	5%	2W
R632	1-216-081-00	RES-CHIP	22K	5%	1/10W
R633	1-249-406-11	CARBON	120	5%	1/4W
R634	1-249-417-11	CARBON	1K	5%	1/4W
R635	1-260-135-11	CARBON	1M	5%	1/2W
R636	1-260-135-11	CARBON	1M	5%	1/2W
R637	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R638	1-216-073-00	RES-CHIP	10K	5%	1/10W
R639	1-249-419-11	CARBON	1.5K	5%	1/4W
R640	1-249-420-11	CARBON	1.8K	5%	1/4W
R641	1-216-073-00	RES-CHIP	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R642	1-249-393-11	CARBON	10	5%	1/4W
R643	1-243-979-71	METAL OXIDE	0.1	5%	2W
R645	1-216-073-00	RES-CHIP	10K	5%	1/10W
R646	1-216-001-00	RES-CHIP	10	5%	1/10W
R647	1-219-512-11	CARBON	2.2M	5%	1/2W
R651	1-215-421-00	METAL	1K	1%	1/4W
R652	1-216-081-00	RES-CHIP	22K	5%	1/10W
R653	1-216-671-11	METAL (CHIP)	6.8K	0.5%	1/10W
R654	1-216-017-91	RES-CHIP	47	5%	1/10W
R655	1-216-049-11	RES-CHIP	1K	5%	1/10W
R656	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-216-667-11	METAL (CHIP)	4.7K	0.5%	1/10W
R661	1-216-295-11	SHORT	0		
R665	1-249-421-11	CARBON	2.2K	5%	1/4W
R670	1-216-679-11	METAL (CHIP)	15K	0.5%	1/10W
R671	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R675	1-219-512-11	CARBON	2.2M	5%	1/2W
R676	1-218-756-11	METAL (CHIP)	150K	0.5%	1/10W
R686	1-216-033-00	RES-CHIP	220	5%	1/10W
R687	1-216-081-00	RES-CHIP	22K	5%	1/10W
R691	1-244-160-91	METAL	36K	0.5%	1/4W
R692	1-244-160-91	METAL	36K	0.5%	1/4W
R693	1-244-160-91	METAL	36K	0.5%	1/4W
R694	1-243-985-91	METAL	33K	0.5%	1/4W
R696	1-260-092-11	CARBON	270	5%	1/2W
R698	1-216-679-11	METAL (CHIP)	15K	0.5%	1/10W
R699	1-216-647-11	METAL (CHIP)	680	0.5%	1/10W
R700	1-216-095-00	RES-CHIP	82K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R701	1-249-385-11	CARBON	2.2	5%	1/4W
R702	1-216-073-00	RES-CHIP	10K	5%	1/10W
R703	1-249-385-11	CARBON	2.2	5%	1/4W
R704	1-216-049-11	RES-CHIP	1K	5%	1/10W
R706	1-215-887-00	METAL OXIDE	150	5%	2W
R707	1-249-440-11	CARBON	82K	5%	1/4W
R709	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R710	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R711	1-216-674-11	METAL (CHIP)	9.1K	0.5%	1/10W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-215-887-00	METAL OXIDE	150	5%	2W
R716	1-249-385-11	CARBON	2.2	5%	1/4W
R717	1-249-385-11	CARBON	2.2	5%	1/4W
R718	1-215-866-11	METAL OXIDE	330	5%	1W
R719	1-216-373-11	METAL OXIDE	2.2	5%	2W
R721	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R722	1-215-866-11	METAL OXIDE	330	5%	1W
R724	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R725	1-216-373-11	METAL OXIDE	2.2	5%	2W
R726	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R727	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R728	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R729	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R731	1-216-081-00	RES-CHIP	22K	5%	1/10W
R732	1-249-383-11	CARBON	1.5	5%	1/4W
R733	1-215-859-00	METAL OXIDE	22	5%	1W
R734	1-215-865-11	METAL OXIDE	220	5%	1W
R735	1-216-667-11	METAL (CHIP)	4.7K	0.5%	1/10W
R737	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R738	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R739	1-215-451-00	METAL	18K	1%	1/4W
R740	1-216-089-11	RES-CHIP	47K	5%	1/10W
R741	1-216-049-11	RES-CHIP	1K	5%	1/10W
R742	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R743	1-216-039-00	RES-CHIP	390	5%	1/10W
R744	1-249-413-11	CARBON	470	5%	1/4W
R745	1-249-389-11	CARBON	4.7	5%	1/4W
R746	1-249-389-11	CARBON	4.7	5%	1/4W
R747	1-215-881-11	METAL OXIDE	15	5%	2W
R748	1-219-510-11	CARBON	470K	5%	1/2W
R749	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R753	1-249-393-11	CARBON	10	5%	1/4W
R754	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R755	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R756	1-249-421-11	CARBON	2.2K	5%	1/4W
R757	1-216-073-00	RES-CHIP	10K	5%	1/10W
R758	1-249-385-11	CARBON	2.2	5%	1/4W
R759	1-249-385-11	CARBON	2.2	5%	1/4W
R760	1-216-093-91	RES-CHIP	68K	5%	1/10W
R761	1-215-449-00	METAL	15K	1%	1/4W
R901	1-216-097-11	RES-CHIP	100K	5%	1/10W
R902	1-216-089-11	RES-CHIP	47K	5%	1/10W
R903	1-218-758-11	METAL (CHIP)	180K	0.5%	1/10W
R904	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R905	1-216-049-11	RES-CHIP	1K	5%	1/10W
R907	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R908	1-249-425-11	CARBON	4.7K	5%	1/4W
R909	1-219-727-11	METAL	68	5%	10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R911	1-249-397-11	CARBON	22	5%	1/4W
R912	1-216-049-11	RES-CHIP	1K	5%	1/10W
R914	1-216-041-00	RES-CHIP	470	5%	1/10W
R915	1-249-397-11	CARBON	22	5%	1/4W
R916	1-249-401-11	CARBON	47	5%	1/4W
R917	1-249-385-11	CARBON	2.2	5%	1/4W
R918	1-214-935-00	METAL	820K	1%	1/2W
R919	1-216-073-00	RES-CHIP	10K	5%	1/10W
R920	1-216-693-11	METAL (CHIP)	56K	0.5%	1/10W
R921	1-249-425-11	CARBON	4.7K	5%	1/4W
R923	1-215-467-00	METAL	82K	1%	1/4W
R924	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R925	1-218-762-11	METAL (CHIP)	270K	0.5%	1/10W
R926	1-216-083-00	RES-CHIP	27K	5%	1/10W
R927	1-219-748-11	CARBON	4.7K	5%	1/2W
R928	1-220-825-11	CARBON	330K	5%	1/2W
R929	1-216-089-11	RES-CHIP	47K	5%	1/10W
R931	1-219-748-11	CARBON	4.7K	5%	1/2W
R932	1-216-665-11	METAL (CHIP)	3.9K	0.5%	1/10W
R933	1-216-661-11	METAL (CHIP)	2.7K	0.5%	1/10W
R934	1-260-300-11	CARBON	4.7	5%	1/2W
R935	1-215-433-00	METAL	3.3K	1%	1/4W
R936	1-219-398-51	METAL	2.2M	5%	1W
R937	1-216-049-11	RES-CHIP	1K	5%	1/10W
R938	1-216-111-00	RES-CHIP	390K	5%	1/10W
R939	1-216-095-00	RES-CHIP	82K	5%	1/10W
R940	1-216-109-00	RES-CHIP	330K	5%	1/10W
R941	1-219-621-91	METAL	22M	10%	1/4W
R942	1-216-121-11	RES-CHIP	1M	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R943	1-216-097-11	RES-CHIP	100K	5%	1/10W
R944	1-216-049-11	RES-CHIP	1K	5%	1/10W
R945	1-216-025-11	RES-CHIP	100	5%	1/10W
R946	1-216-073-00	RES-CHIP	10K	5%	1/10W
R950	1-216-049-11	RES-CHIP	1K	5%	1/10W
R951	1-216-097-11	RES-CHIP	100K	5%	1/10W
R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R953	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R954	1-218-179-11	RES-CHIP	10M	5%	1/10W
R955	1-218-179-11	RES-CHIP	10M	5%	1/10W
		<VARIABLE RESISTOR>			
⧓ RV901 ⚠	1-241-767-21	RES, ADJ, CERMET 100K (HV ADJ)			
		<RELAY>			
RY602 ⚠	1-755-318-11	RELAY, POWER			
RY603 ⚠	1-755-067-21	RELAY			
		<SWITCH>			
S501	1-692-465-11	SWITCH, SLIDE (RASTER CENTER TAP SWITCH)			
S601 ⚠	1-771-727-11	SWITCH, PUSH (AC POWER)			
		<SPARK GAP>			
SG601	1-533-982-21	SPARK GAP			

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REF.NO.		PART NO.	DESCRIPTION	REMARK
SG901		1-517-499-21	SPARK GAP	
SG902		1-519-422-11	SPARK GAP	
SG903		1-519-422-11	SPARK GAP	
			<TRANSFORMER>	
T501		1-435-188-11	TRANSFORMER, FERRITE (HDT)	
T503		1-435-140-21	TRANSFORMER, FERRITE (LCT)	
T504		1-431-413-11	TRANSFORMER, FERRITE (HST)	
T601	⚠	1-429-180-11	TRANSFORMER, LINE FILTER	
T620		1-435-748-11	TRANSFORMER, CONVERTER (PIT)	
T630		1-435-751-11	TRANSFORMER, CONVERTER (SRT)	
T701		1-435-129-11	TRANSFORMER, FERRITE (DFT)	
T901	⚠	1-453-359-11	TRANSFORMER ASSY, FLYBACK	(NX-4702/KM7E)
T902		1-411-567-31	INDUCTOR 500µH	
			<THERMISTOR>	
TH401		1-807-925-11	THERMISTOR	
TH601	⚠	1-803-546-11	THERMISTOR (NTH22D6R0QA)	
THP602	⚠	1-809-827-11	THERMISTOR, PTC	
			<VARISTOR>	
VDR601	⚠	1-803-918-51	VARISTOR (TNR14V621K660)	
VDR602	⚠	1-810-622-21	VARISTOR	

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REF.NO.	PART NO.	DESCRIPTION		REMARK
		DA BOARD, COMPLETE		
		**********		
		<CAPACITOR>		
C1101	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1102	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1103	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1104	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1105	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1108	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1109	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1110	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1111	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1112	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1113	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1114	1-163-017-00	CERAMIC (CHIP) 0.0047µF	10%	50V
C1115	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1116	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1117	1-163-019-00	CERAMIC (CHIP) 0.0068µF	10%	50V
C1118	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1119	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1120	1-163-251-11	CERAMIC (CHIP) 100pF	5%	50V
C1121	1-163-019-00	CERAMIC (CHIP) 0.0068µF	10%	50V
C1122	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1123	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1124	1-163-005-11	CERAMIC (CHIP) 470pF	10%	50V
C1125	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1126	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1127	1-125-838-11	CERAMIC (CHIP) 2.2µF	10%	6.3V
C1128	1-126-246-11	ELECT (CHIP) 220µF	20%	4V
C1129	1-163-007-11	CERAMIC (CHIP) 680pF	10%	50V
C1130	1-164-492-11	CERAMIC (CHIP) 0.15µF	10%	16V
C1131	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1132	1-163-021-91	CERAMIC (CHIP) 0.01µF	10%	50V
C1133	1-126-246-11	ELECT (CHIP) 220µF	20%	4V
C1137	1-126-205-11	ELECT (CHIP) 47µF	20%	6.3V
C1138	1-163-251-11	CERAMIC (CHIP) 100pF	5%	50V
C1139	1-164-004-11	CERAMIC (CHIP) 0.1µF	10%	25V
C1140	1-163-251-11	CERAMIC (CHIP) 100pF	5%	50V
		<DIODE>		
D1104	8-719-027-76	DIODE 1SS357-TPH3		
D1105	8-719-067-40	ZENER DIODE STZ6.8N-T146		
D1106	8-719-067-40	ZENER DIODE STZ6.8N-T146		
D1107	8-719-067-40	ZENER DIODE STZ6.8N-T146		
		<FERRITE BEAD>		
FB1101	1-543-963-22	FERRITE		
		<IC>		
IC1101	8-759-697-78	IC CXD9563Q		
IC1102	8-759-701-01	IC NJM2904M		

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	<RESISTOR>				
R1101	1-216-025-11	RES-CHIP	100	5%	1/10W
R1102	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1103	1-216-025-11	RES-CHIP	100	5%	1/10W
R1106	1-216-691-11	METAL (CHIP)	47K	0.5%	1/10W
R1108	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1109	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1110	1-216-675-91	METAL (CHIP)	10K	0.5%	1/10W
R1111	1-216-673-11	METAL (CHIP)	8.2K	0.5%	1/10W
R1112	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1113	1-216-665-11	METAL (CHIP)	3.9K	0.5%	1/10W
R1114	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1115	1-216-691-11	METAL (CHIP)	47K	0.5%	1/10W
R1116	1-216-655-11	METAL (CHIP)	1.5K	0.5%	1/10W
R1118	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1119	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1122	1-216-659-11	METAL (CHIP)	2.2K	0.5%	1/10W
R1123	1-216-656-11	METAL (CHIP)	1.6K	0.5%	1/10W
R1124	1-216-643-11	METAL (CHIP)	470	0.5%	1/10W
R1125	1-216-659-11	METAL (CHIP)	2.2K	0.5%	1/10W
R1126	1-216-642-11	METAL (CHIP)	430	0.5%	1/10W
R1127	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1128	1-216-105-91	RES-CHIP	220K	5%	1/10W
R1129	1-216-683-11	METAL (CHIP)	22K	0.5%	1/10W
R1131	1-216-025-11	RES-CHIP	100	5%	1/10W
R1132	1-216-025-11	RES-CHIP	100	5%	1/10W
R1133	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1134	1-216-663-11	METAL (CHIP)	3.3K	0.5%	1/10W
R1135	1-216-121-11	RES-CHIP	1M	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1136	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1137	1-218-758-11	METAL (CHIP)	180K	0.5%	1/10W
R1139	1-216-691-11	METAL (CHIP)	47K	0.5%	1/10W
R1141	1-216-025-11	RES-CHIP	100	5%	1/10W
R1142	1-216-295-11	SHORT	0		
	<COMPOSITION CIRCUIT BLOCK>				
RB1101	1-233-576-11	NETWORK, RESISTOR (CHIP) 100			
RB1102	1-233-412-11	NETWORK, RESISTOR (CHIP) 1.0K (3216)			
RB1103	1-233-412-11	NETWORK, RESISTOR (CHIP) 1.0K (3216)			
RB1104	1-233-576-11	NETWORK, RESISTOR (CHIP) 100			
RB1105	1-233-576-11	NETWORK, RESISTOR (CHIP) 100			
RB1106	1-233-412-11	NETWORK, RESISTOR (CHIP) 1.0K (3216)			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		H2 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1400	1-126-795-11	ELECT	10µF	20%	50V
C1401	1-126-786-11	ELECT	47µF	20%	16V
C1402	1-126-786-11	ELECT	47µF	20%	16V
C1403	1-137-150-11	MYLAR	0.01µF	5%	50V
C1404	1-137-150-11	MYLAR	0.01µF	5%	50V
C1405	1-126-786-11	ELECT	47µF	20%	16V
C1407	1-126-786-11	ELECT	47µF	20%	16V
C1498	1-130-495-00	MYLAR	0.1µF	5%	50V
		<CONNECTOR>			
CN1400	1-564-593-11	PLUG, CONNECTOR 14P			
CN1401*	1-564-520-11	PLUG, CONNECTOR 5P			
		<DIODE>			
D1400	8-719-056-13	DIODE SML79423C-TP15 (POWER)			
D1402	8-719-911-19	DIODE 1SS119-25			
D1403	8-719-911-19	DIODE 1SS119-25			
		<FERRITE BEAD>			
FB1401	1-412-911-31	FERRITE	1.1µH		
FB1402	1-412-911-31	FERRITE	1.1µH		
FB1403	1-412-911-31	FERRITE	1.1µH		
		<TRANSISTOR>			
Q1400	8-729-029-66	TRANSISTOR DTC114ESA			
Q1401	8-729-029-68	TRANSISTOR DTC114TSA			
Q1402	8-729-029-40	TRANSISTOR DTA124ESA			
		<RESISTOR>			
R1400	1-215-405-00	METAL	220	1%	1/4W
R1401	1-215-405-00	METAL	220	1%	1/4W
R1402	1-215-397-00	METAL	100	1%	1/4W
R1403	1-215-397-00	METAL	100	1%	1/4W
R1404	1-215-413-00	METAL	470	1%	1/4W
R1405	1-249-441-11	CARBON	100K	5%	1/4W
R1406	1-249-411-11	CARBON	330	5%	1/4W
R1407	1-249-413-11	CARBON	470	5%	1/4W
R1408	1-249-413-11	CARBON	470	5%	1/4W
R1409	1-249-441-11	CARBON	100K	5%	1/4W
R1419	1-249-441-11	CARBON	100K	5%	1/4W
R1420	1-249-429-11	CARBON	10K	5%	1/4W
R1421	1-215-445-00	METAL	10K	1%	1/4W
R1422	1-249-433-11	CARBON	22K	5%	1/4W
R1423	1-249-433-11	CARBON	22K	5%	1/4W
R1424	1-215-453-00	METAL	22K	1%	1/4W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	<SWITCH>		
S1400	1-762-196-21	SWITCH, TACT (MENU)	
S1401	1-762-196-21	SWITCH, TACT (PICTURE)	
S1402	1-771-734-11	SWITCH, TACTILE (CONTROL/CONTRAST)	
S1403	1-571-427-11	SWITCH, SLIDE (INPUT1/INPUT2)	
	<THERMISTOR>		
TH1400	1-807-796-11	THERMISTOR	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		L2 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1600	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1604	1-163-003-11	CERAMIC (CHIP)	330pF	10%	50V
C1605	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1606	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1607	1-163-003-11	CERAMIC (CHIP)	330pF	10%	50V
C1608	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1611	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1613	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1614	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1617	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1618	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1619	1-163-038-11	CERAMIC (CHIP)	0.1µF		25V
C1621	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1622	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1623	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C1627	1-115-339-11	CERAMIC (CHIP)	0.1µF	10%	50V
C1628	1-104-664-11	ELECT	47µF	20%	25V
C1629	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1632	1-104-664-11	ELECT	47µF	20%	25V
C1633	1-126-791-11	ELECT	10µF	20%	16V
C1637	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1638	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1639	1-104-664-11	ELECT	47µF	20%	25V
C1640	1-104-664-11	ELECT	47µF	20%	25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CONNECTOR>			
CN1600	1-564-505-11	PLUG, CONNECTOR 2P			
CN1601*	1-564-507-11	PLUG, CONNECTOR 4P			
CN1602*	1-564-511-11	PLUG, CONNECTOR 8P			
		<FERRITE BEAD>			
FB1600	1-412-911-11	FERRITE	1.1µH		
FB1601	1-412-911-11	FERRITE	1.1µH		
FB1602	1-412-911-11	FERRITE	1.1µH		
FB1603	1-412-911-11	FERRITE	1.1µH		
FB1604	1-412-911-11	FERRITE	1.1µH		
		<IC>			
IC1600	8-759-822-38	IC LA6510			
IC1601	8-759-822-38	IC LA6510			
IC1602	8-759-426-18	IC MB88141PF-ER			
IC1603	8-759-803-42	IC LA6500-FA			
IC1604	8-759-822-38	IC LA6510			
IC1605	8-759-711-59	IC NJM78L05UA-TE1			
		<RESISTOR>			
R1600	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1601	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1603	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1604	1-216-073-00	RES-CHIP	10K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R1605	1-215-859-00	METAL OXIDE	22	5%	1W
R1607	1-215-859-00	METAL OXIDE	22	5%	1W
R1608	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R1609	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1610	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R1611	1-215-859-00	METAL OXIDE	22	5%	1W
R1613	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1617	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1621	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1624	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1625	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1626	1-215-859-00	METAL OXIDE	22	5%	1W
R1628	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1629	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1630	1-215-859-00	METAL OXIDE	22	5%	1W
R1631	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1634	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1635	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1636	1-215-859-00	METAL OXIDE	22	5%	1W
R1640	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1641	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1643	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1644	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1647	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1648	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1649	1-215-859-00	METAL OXIDE	22	5%	1W
R1650	1-249-382-11	CARBON	1.2	5%	1/4W
R1651	1-249-382-11	CARBON	1.2	5%	1/4W
R1652	1-249-382-11	CARBON	1.2	5%	1/4W
R1653	1-249-382-11	CARBON	1.2	5%	1/4W
R1654	1-216-025-11	RES-CHIP	100	5%	1/10W
R1655	1-216-025-11	RES-CHIP	100	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		N BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1001	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1002	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1004	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1005	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1014	1-126-205-11	ELECT (CHIP)	47µF	20%	6.3V
C1015	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1016	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1017	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1018	1-163-220-11	CERAMIC (CHIP)	3pF	0.25pF	50V
C1019	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C1020	1-126-206-11	ELECT (CHIP)	100µF	20%	6.3V
C1021	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1022	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1023	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1027	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1028	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C1029	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C1030	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
		<CONNECTOR>			
CN1003	1-564-521-11	PLUG, CONNECTOR 6P			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<DIODE>			
D1001	8-719-073-01	DIODE MA111-(K8).S0			
		<FERRITE BEAD>			
FB1001	1-543-963-22	FERRITE			
FB1002	1-216-295-11	SHORT	0		
FB1003	1-216-295-11	SHORT	0		
FB1004	1-216-295-11	SHORT	0		
FB1005	1-216-295-11	SHORT	0		
FB1006	1-216-295-11	SHORT	0		
FB1007	1-216-295-11	SHORT	0		
		<IC>			
IC1001	8-759-826-97	IC TMP91PW18F-1A22 (Z)			
IC1002	8-759-420-77	IC PST574CMT-T1			
IC1003	8-759-641-86	IC BR24C16F-E2			
		<TRANSISTOR>			
Q1001	8-729-029-06	TRANSISTOR DTC124EUA-T106			
		<RESISTOR>			
R1001	1-216-125-00	RES-CHIP	1.5M	5%	1/10W
R1003	1-216-025-11	RES-CHIP	100	5%	1/10W
R1004	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R1005	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1006	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1008	1-216-025-11	RES-CHIP	100	5%	1/10W
R1009	1-216-025-11	RES-CHIP	100	5%	1/10W
R1010	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1011	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1012	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1014	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1015	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1016	1-216-025-11	RES-CHIP	100	5%	1/10W
R1017	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1018	1-216-017-91	RES-CHIP	47	5%	1/10W
R1019	1-216-017-91	RES-CHIP	47	5%	1/10W
R1020	1-216-017-91	RES-CHIP	47	5%	1/10W
R1021	1-216-017-91	RES-CHIP	47	5%	1/10W
R1022	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1040	1-216-025-11	RES-CHIP	100	5%	1/10W
R1041	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1042	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1043	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1044	1-216-121-11	RES-CHIP	1M	5%	1/10W

<COMPOSITION CIRCUIT BLOCK>

RB1001	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1002	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1003	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1004	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1005	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1006	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1007	1-233-576-11	NETWORK, RESISTOR (CHIP) 100
RB1009	1-233-576-11	NETWORK, RESISTOR (CHIP) 100

<CRYSTAL>

X1001	1-795-044-21	VIBRATOR, CRYSTAL (16.9344MHz)

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US

REF.NO.	PART NO.	DESCRIPTION			REMARK
		US BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C2601	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C2602	1-126-964-11	ELECT	10µF	20%	50V
C2603	1-126-964-11	ELECT	10µF	20%	50V
C2604	1-126-964-11	ELECT	10µF	20%	50V
C2605	1-126-964-11	ELECT	10µF	20%	50V
C2606	1-126-934-11	ELECT	220µF	20%	10V
C2607	1-126-934-11	ELECT	220µF	20%	10V
C2608	1-126-934-11	ELECT	220µF	20%	10V
C2609	1-126-934-11	ELECT	220µF	20%	10V
C2610	1-104-664-11	ELECT	47µF	20%	25V
C2611	1-104-664-11	ELECT	47µF	20%	25V
C2612	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C2901	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C2902	1-104-664-11	ELECT	47µF	20%	25V
C2904	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
C2905	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C2906	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C2908	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C2909	1-163-237-11	CERAMIC (CHIP)	27pF	5%	50V
C2912	1-163-235-11	CERAMIC (CHIP)	22pF	5%	50V
C2914	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C2915	1-164-489-11	CERAMIC (CHIP)	0.22µF	10%	16V
C2916	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C2917	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C2918	1-164-004-11	CERAMIC (CHIP)	0.1µF	10%	25V
C2923	1-163-021-91	CERAMIC (CHIP)	0.01µF	10%	50V
		<CONNECTOR>			
CN2601*	1-564-519-11	PLUG, CONNECTOR 4P			
CN2901	1-794-989-11	CONNECTOR, USB (B)			
CN2902	1-794-990-11	CONNECTOR, USB (A)			
CN2903	1-794-990-11	CONNECTOR, USB (A)			
CN2904	1-794-990-11	CONNECTOR, USB (A)			
CN2905	1-794-990-11	CONNECTOR, USB (A)			
		<DIODE>			
D2601	8-719-069-55	ZENER DIODE UDZS-TE17-5.6B			
D2604	8-719-911-19	DIODE 1SS119-25			
D2605	8-719-911-19	DIODE 1SS119-25			
D2606	8-719-911-19	DIODE 1SS119-25			
D2607	8-719-911-19	DIODE 1SS119-25			
D2902	8-719-422-12	ZENER DIODE MA8039			
D2903	8-719-422-12	ZENER DIODE MA8039			
D2904	8-719-069-55	ZENER DIODE UDZS-TE17-5.6B			
D2905	8-719-069-55	ZENER DIODE UDZS-TE17-5.6B			
D2906	8-719-069-55	ZENER DIODE UDZS-TE17-5.6B			
D2907	8-719-069-55	ZENER DIODE UDZS-TE17-5.6B			
D2908	8-719-422-12	ZENER DIODE MA8039			
D2909	8-719-422-12	ZENER DIODE MA8039			
D2910	8-719-422-12	ZENER DIODE MA8039			
D2911	8-719-422-12	ZENER DIODE MA8039			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D2912	8-719-422-12	ZENER DIODE MA8039	
D2913	8-719-422-12	ZENER DIODE MA8039	
D2914	8-719-422-12	ZENER DIODE MA8039	
D2915	8-719-422-12	ZENER DIODE MA8039	
	<FERRITE BEAD>		
FB2601	1-412-911-31	FERRITE 1.1µH	
FB2602	1-410-397-21	FERRITE 1.1µH	
FB2901	1-412-911-31	FERRITE 1.1µH	
FB2903	1-412-911-31	FERRITE 1.1µH	
FB2904	1-412-911-31	FERRITE 1.1µH	
FB2905	1-412-911-31	FERRITE 1.1µH	
FB2906	1-412-911-31	FERRITE 1.1µH	
FB2911	1-412-911-31	FERRITE 1.1µH	
FB2912	1-216-295-11	SHORT 0	
FB2913	1-216-295-11	SHORT 0	
FB2914	1-216-295-11	SHORT 0	
FB2915	1-216-295-11	SHORT 0	
FB2916	1-216-295-11	SHORT 0	
FB2917	1-216-295-11	SHORT 0	
FB2918	1-216-295-11	SHORT 0	
FB2919	1-216-295-11	SHORT 0	
FB2924	1-216-295-11	SHORT 0	
FB2925	1-216-295-11	SHORT 0	
FB2936	1-414-766-22	INDUCTOR	

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<IC>				
IC2601	8-759-431-14	IC PQ3TZ53U			
IC2602	8-749-018-35	IC SLA3006M(LF874)			
IC2901	8-759-660-89	IC KC82C160SH			
IC2902	8-759-165-87	IC PST600J-T			
	<TRANSISTOR>				
Q2601	8-729-029-06	TRANSISTOR DTC124EUA-T106			
Q2602	8-729-029-06	TRANSISTOR DTC124EUA-T106			
Q2603	8-729-029-06	TRANSISTOR DTC124EUA-T106			
Q2604	8-729-029-06	TRANSISTOR DTC124EUA-T106			
	<RESISTOR>				
R2601	1-216-081-00	RES-CHIP	22K	5% 1/10W	
R2602	1-216-365-00	METAL OXIDE	0.47	5% 2W	
R2603	1-216-365-00	METAL OXIDE	0.47	5% 2W	
R2611	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R2612	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R2613	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R2614	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R2618	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R2619	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R2620	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R2621	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R2622	1-216-033-00	RES-CHIP	220	5% 1/10W	
R2623	1-216-033-00	RES-CHIP	220	5% 1/10W	
R2901	1-216-013-00	RES-CHIP	33	5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R2902	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2903	1-216-121-11	RES-CHIP	1M	5%	1/10W
R2904	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2905	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2906	1-216-022-00	RES-CHIP	75	5%	1/10W
R2907	1-216-039-00	RES-CHIP	390	5%	1/10W
R2908	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2910	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2915	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2916	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2919	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2920	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2923	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2924	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2925	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2926	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2927	1-216-013-00	RES-CHIP	33	5%	1/10W
R2928	1-216-013-00	RES-CHIP	33	5%	1/10W
R2930	1-216-009-91	RES-CHIP	22	5%	1/10W
R2931	1-216-009-91	RES-CHIP	22	5%	1/10W
R2932	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2933	1-216-013-00	RES-CHIP	33	5%	1/10W
R2934	1-216-013-00	RES-CHIP	33	5%	1/10W
R2935	1-216-013-00	RES-CHIP	33	5%	1/10W
R2941	1-216-013-00	RES-CHIP	33	5%	1/10W
R2942	1-216-013-00	RES-CHIP	33	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
	<CRYSTAL>		
X2901	1-767-925-21	VIBRATOR, CRYSTAL (12MHz)	

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English
2001AL05-Data
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